

FOREWORD

This wiring diagram manual has been prepared to provide information on the electrical system of the 2004 SEQUOIA.

Applicable models: UCK35, 45 Series

For service specifications and repair procedures of the above models other than those listed in this manual, refer to the following manuals;

Manual Name	Pub. No.
● 2004 SEQUOIA Repair Manual Volume 1	RM1089U1
Volume 2	RM1089U2
● 2004 TOYOTA New Car Features	NCF257U

All information in this manual is based on the latest product information at the time of publication. However, specifications and procedures are subject to change without notice.

TOYOTA MOTOR CORPORATION

NOTICE

When handling supplemental restraint system components (removal, installation or inspection, etc.), always follow the direction given in the repair manuals listed above to prevent accidents and supplemental restraint system malfunction.

A INTRODUCTION

This manual consists of the following 13 sections:

No.	Section	Description
A	INDEX	Index of the contents of this manual.
	INTRODUCTION	Brief explanation of each section.
B	HOW TO USE THIS MANUAL	Instructions on how to use this manual.
C	TROUBLE-SHOOTING	Describes the basic inspection procedures for electrical circuits.
D	ABBREVIATIONS	Defines the abbreviations used in this manual.
E	GLOSSARY OF TERMS AND SYMBOLS	Defines the symbols and functions of major parts.
F	RELAY LOCATIONS	Shows position of the Electronic Control Unit, Relays, Relay Block, etc. This section is closely related to the system circuit.
G	ELECTRICAL WIRING ROUTING	Describes position of Parts Connectors, Splice points, Ground points, etc. This section is closely related to the system circuit.
H	INDEX	Index of the system circuits.
	SYSTEM CIRCUITS	Electrical circuits of each system are shown from the power supply through ground points. Wiring connections and their positions are shown and classified by code according to the connection method. (Refer to the section, "How to use this manual"). The "System Outline" and "Service Hints" useful for troubleshooting are also contained in this section.
I	GROUND POINT	Shows ground positions of all parts described in this manual.
J	POWER SOURCE (Current Flow Chart)	Describes power distribution from the power supply to various electrical loads.
K	CONNECTOR LIST	Describes the form of the connectors for the parts appeared in this book. This section is closely related to the system circuit.
L	PART NUMBER OF CONNECTORS	Indicates the part number of the connectors used in this manual.
M	OVERALL ELECTRICAL WIRING DIAGRAM	Provides circuit diagrams showing the circuit connections.

This manual provides information on the electrical circuits installed on vehicles by dividing them into a circuit for each system.

The actual wiring of each system circuit is shown from the point where the power source is received from the battery as far as each ground point. (All circuit diagrams are shown with the switches in the OFF position.)

When troubleshooting any problem, first understand the operation of the circuit where the problem was detected (see System Circuit section), the power source supplying power to that circuit (see Power Source section), and the ground points (see Ground Point section). See the System Outline to understand the circuit operation.

When the circuit operation is understood, begin troubleshooting of the problem circuit to isolate the cause. Use Relay Location and Electrical Wiring Routing sections to find each part, junction block and wiring harness connectors, wiring harness and wiring harness connectors, splice points, and ground points of each system circuit. Internal wiring for each junction block is also provided for better understanding of connection within a junction block.

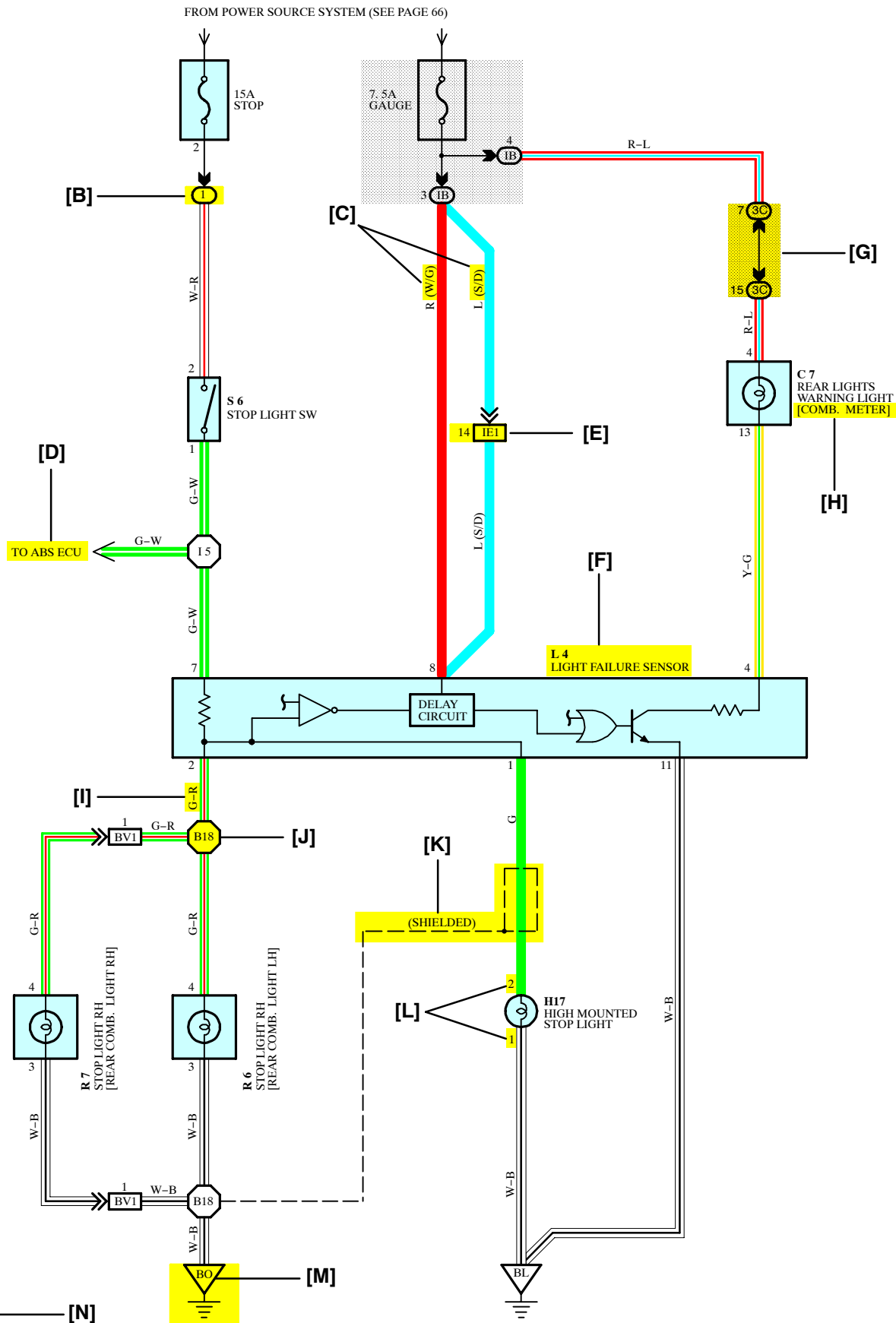
Wiring related to each system is indicated in each system circuit by arrows (from __, to __). When overall connections are required, see the Overall Electrical Wiring Diagram at the end of this manual.

B HOW TO USE THIS MANUAL

[A]

STOP LIGHT

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.



[A] : System Title

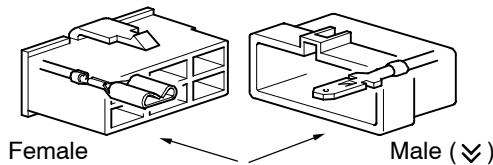
[B] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B

Example: ① Indicates Relay Block No.1

[C] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[D] : Indicates related system.

[E] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (≧). Outside numerals are pin numbers.



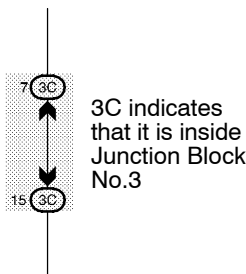
The first letter of the code for each wiring harness and wiring harness connector(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

When more than one code has the first and second letters in common, followed by numbers (e.g, IH1, IH2), this indicates the same type of wiring harness and wiring harness connector.

[F] : Represents a part (all parts are shown in sky blue). The code is the same as the code used in parts position.

[G] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[H] : When 2 parts both use one connector in common, the parts connector name used in the wire routing section is shown in square brackets [].

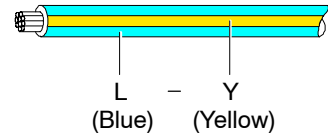
[I] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black	W = White	BR = Brown
L = Blue	V = Violet	SB = Sky Blue
R = Red	G = Green	LG = Light Green
P = Pink	Y = Yellow	GR = Gray
O = Orange		

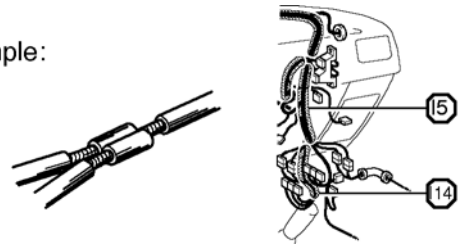
The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L - Y



[J] : Indicates a wiring Splice Point (Codes are "E" for the Engine Room, "I" for the Instrument Panel, and "B" for the Body).

Example:



The Location of splice Point I 5 is indicated by the shaded section.

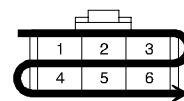
[K] : Indicates a shielded cable.



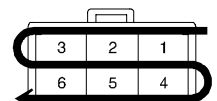
[L] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example: Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



Female



Male

[M] : Indicates a ground point.

The first letter of the code for each ground point(s) indicates the component's location, e.g, "E" for the Engine Compartment, "I" for the Instrument Panel and Surrounding area, and "B" for the Body and Surrounding area.

[N] : Page No.

B HOW TO USE THIS MANUAL

[O] SYSTEM OUTLINE

Current is applied at all times through the STOP fuse to TERMINAL 2 of the stop light SW.

When the ignition SW is turned on, current flows from the GAUGE fuse to TERMINAL 8 of the light failure sensor, and also flows through the rear lights warning light to TERMINAL 4 of the light failure sensor.

STOP LIGHT DISCONNECTION WARNING

When the ignition SW is turned on and the brake pedal is pressed (Stop light SW on), if the stop light circuit is open, the current flowing from TERMINAL 7 of the light failure sensor to TERMINALS 1, 2 changes, so the light failure sensor detects the disconnection and the warning circuit of the light failure sensor is activated.

As a result, the current flows from TERMINAL 4 of the light failure sensor to TERMINAL 11 to GROUND and turns the rear lights warning light on. By pressing the brake pedal, the current flowing to TERMINAL 8 of the light failure sensor keeps the warning circuit on and holds the warning light on until the ignition SW is turned off.

[P] SERVICE HINTS

S6 STOP LIGHT SW

2-1 : Closed with the brake pedal depressed

L4 LIGHT FAILURE SENSOR

1, 2, 7-GROUND : Approx. 12 volts with the stop light SW on

4, 8-GROUND : Approx. 12 volts with the ignition SW at **ON** position

11-GROUND : Always continuity

[Q] : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C7	34	L4	36	R7	37
H17	36	R6	37	S6	35

[R] : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
1	18	R/B No.1 (Instrument Panel Left)

[S] : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IB	20	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
3C	22	Instrument Panel Wire and J/B No.3 (Instrument Panel Left Side)

[T] : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	42	Floor Wire and Instrument Panel Wire (Left Kick Panel)
BV1	50	Luggage Room Wire and Floor Wire (Luggage Compartment Left)

[U] : GROUND POINTS

Code	See Page	Ground Points Location
BL	50	Under the Left Quarter Pillar
BO	50	Back Panel Center

[V] : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	44	Cowl Wire	B18	50	Luggage Room Wire

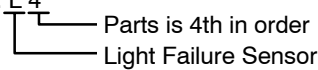
[O] : Explains the system outline.

[P] : Indicates values or explains the function for reference during troubleshooting.

[Q] : Indicates the reference page showing the position on the vehicle of the parts in the system circuit.

Example : Part "L4" (Light Failure Sensor) is on page 36 of the manual.

* The letter in the code is from the first letter of the part, and the number indicates its order in parts starting with that letter.

Example : L 4

Parts is 4th in order
Light Failure Sensor

[R] : Indicates the reference page showing the position on the vehicle of Relay Block Connectors in the system circuit.

Example : Connector "1" is described on page 18 of this manual and is installed on the left side of the instrument panel.

[S] : Indicates the reference page showing the position on the vehicle of J/B and Wire Harness in the system circuit.

Example : Connector "3C" connects the Instrument Panel Wire and J/B No.3. It is described on page 22 of this manual, and is installed on the instrument panel left side.

[T] : Indicates the reference page describing the wiring harness and wiring harness connector (the female wiring harness is shown first, followed by the male wiring harness).

Example : Connector "IE1" connects the floor wire (female) and Instrument panel wire (male). It is described on page 42 of this manual, and is installed on the left side kick panel.

[U] : Indicates the reference page showing the position of the ground points on the vehicle.

Example : Ground point "BO" is described on page 50 of this manual and is installed on the back panel center.

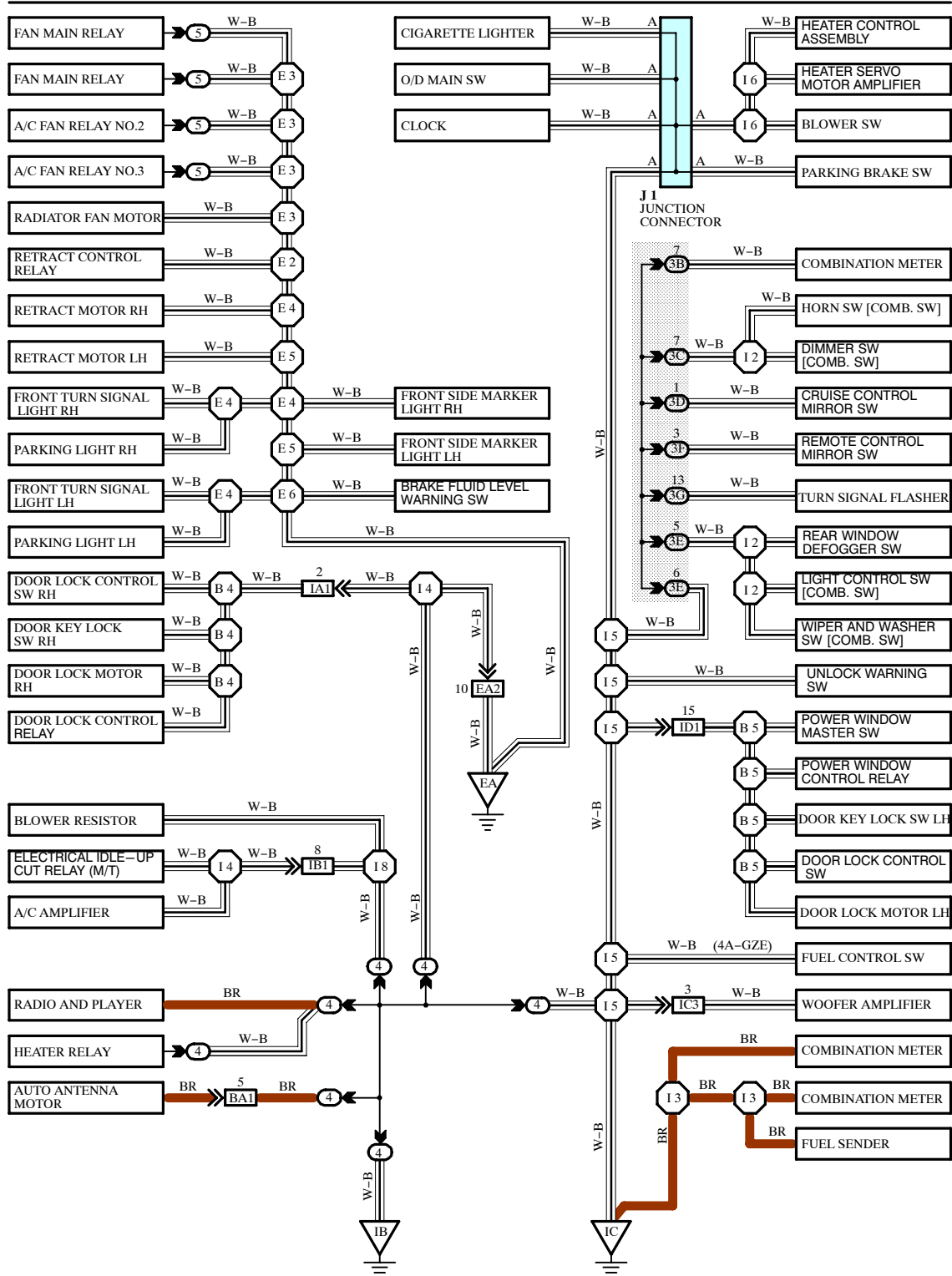
[V] : Indicates the reference page showing the position of the splice points on the vehicle.

Example : Splice point "I5" is on the Cowl Wire Harness and is described on page 44 of this manual.

B HOW TO USE THIS MANUAL

The ground points circuit diagram shows the connections from all major parts to the respective ground points. When troubleshooting a faulty ground point, checking the system circuits which use a common ground may help you identify the problem ground quickly. The relationship between ground points (∇_{EA} , ∇_{IB} and ∇_{IC} shown below) can also be checked this way.

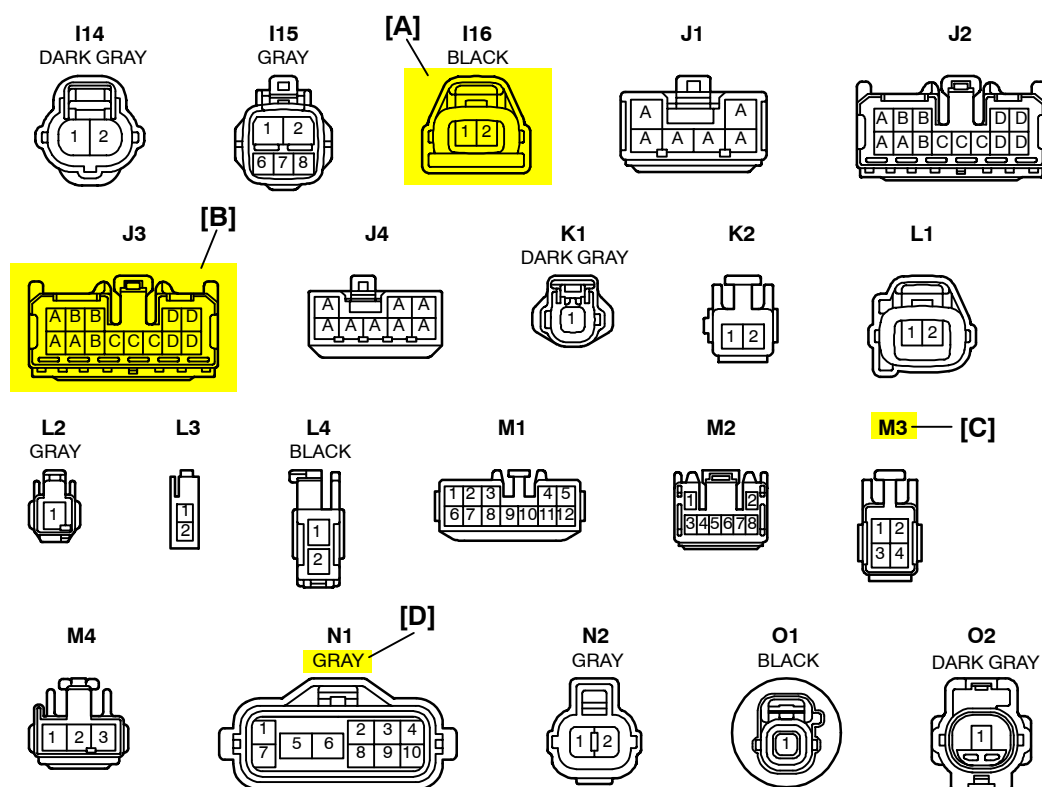
I GROUND POINT



* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the SYSTEM CIRCUITS SECTION.

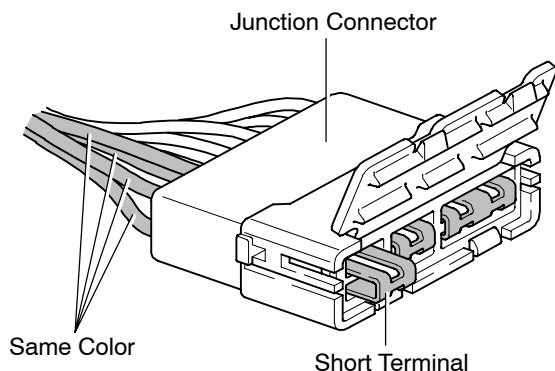
B HOW TO USE THIS MANUAL

K CONNECTOR LIST



[A] : Indicates connector to be connected to a part. (The numeral indicates the pin No.)

[B] : Junction Connector
Indicates a connector which is connected to a short terminal.



Junction connector in this manual include a short terminal which is connected to a number of wire harnesses. Always perform inspection with the short terminal installed. (When installing the wire harnesses, the harnesses can be connected to any position within the short terminal grouping. Accordingly, in other vehicles, the same position in the short terminal may be connected to a wire harness from a different part.)

Wire harness sharing the same short terminal grouping have the same color.

[C] : Parts Code
The first letter of the code is taken from the first letter of part, and the numbers indicates its order in parts which start with the same letter.

[D] : Connector Color
Connectors not indicated are milky white in color.

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	D 4	Diode (Door Courtesy Light)	90980-11608
A 2	A/C Condenser Fan Motor	90980-11237	D 5	Diode (Key Off Operation)	90980-10962
A 3	A/C Condenser Fan Relay	90980-10940	D 6	Diode (Luggage Compartment Light)	90980-11608
A 4	A/C Triple Pressure SW (A/C Dual and Single Pressure SW)	90980-10943	D 7	Door Lock Control Relay	90980-10848
[A]	A/T Oil Temp. Sensor [B]	90980-11148	D 8	Door Courtesy Light LH	90980-11148
A 6	ABS Actuator	90980-11151	D 9	Door Courtesy Light RH	
A 7	ABS Actuator	90980-11009	D10	Door Courtesy SW LH	90980-11097
A 8	ABS Speed Sensor Front LH	90980-10941	D11	Door Courtesy SW RH	
A 9	ABS Speed Sensor Front RH	90980-11002	D12	Door Courtesy SW Front LH	90980-11156
A10	Airbag Sensor Front LH	90980-11856	D13	Door Courtesy SW Front RH	
A11	Airbag Sensor Front RH		D14	Door Courtesy SW Rear LH	
A12	Airbag Sensor Rear LH	90980-11194	D15	Door Courtesy SW Rear RH	90980-11170
		90980-11170	D16	Door Courtesy SW Rear LH	

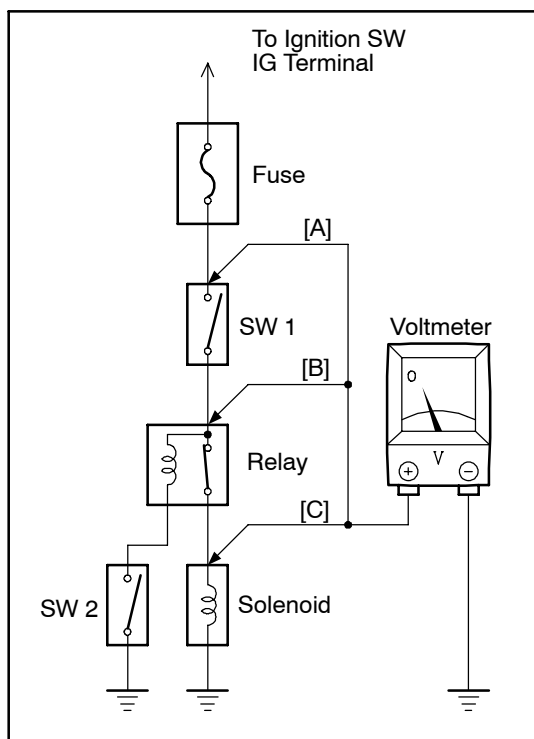
[A] : Part Code

[B] : Part Name

[C] : Part Number
Toyota Part Number are indicated.

Not all of the above part numbers of the connector are established for the supply.

C TROUBLESHOOTING



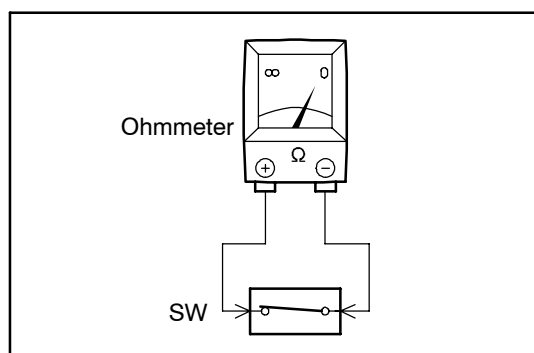
VOLTAGE CHECK

- Establish conditions in which voltage is present at the check point.

Example:

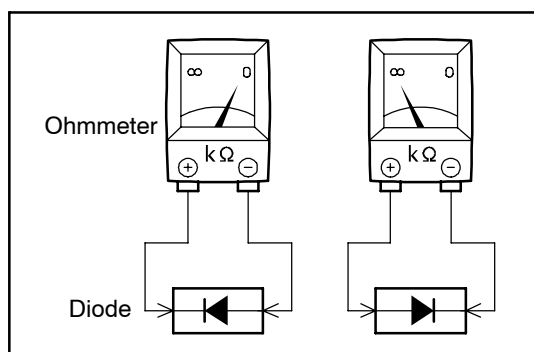
- [A] – Ignition SW on
- [B] – Ignition SW and SW 1 on
- [C] – Ignition SW, SW 1 and Relay on (SW 2 off)

- Using a voltmeter, connect the negative lead to a good ground point or negative battery terminal, and the positive lead to the connector or component terminal. This check can be done with a test light instead of a voltmeter.



CONTINUITY AND RESISTANCE CHECK

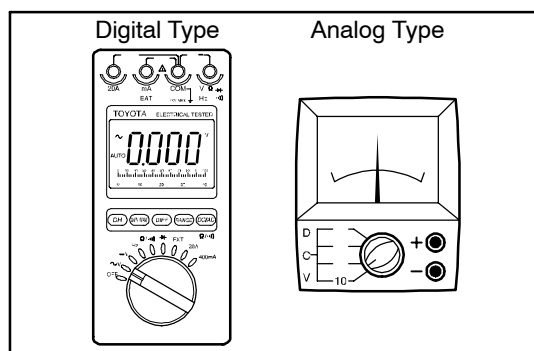
- Disconnect the battery terminal or wire so there is no voltage between the check points.
- Contact the two leads of an ohmmeter to each of the check points.



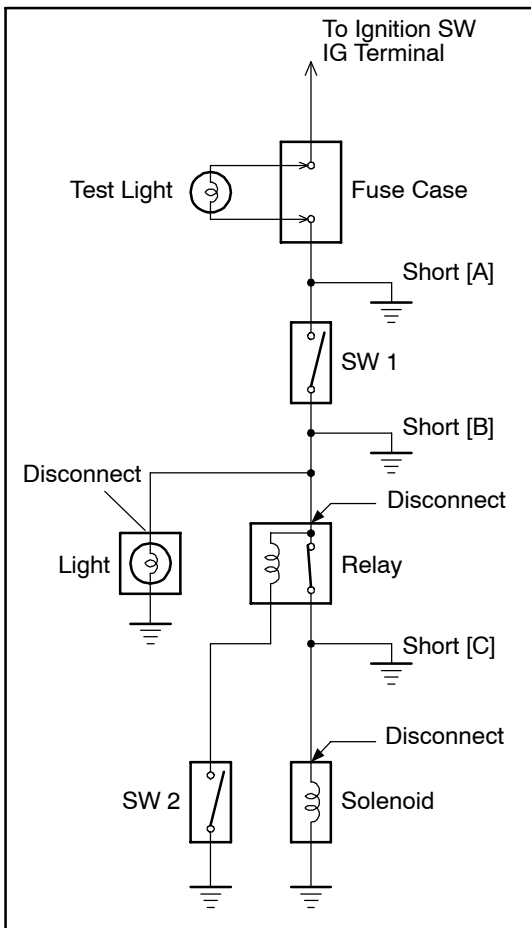
If the circuit has diodes, reverse the two leads and check again.

When contacting the negative lead to the diode positive side and the positive lead to the negative side, there should be continuity.

When contacting the two leads in reverse, there should be no continuity.



- Use a volt/ohmmeter with high impedance (10 kΩ/V minimum) for troubleshooting of the electrical circuit.



FINDING A SHORT CIRCUIT

- Remove the blown fuse and disconnect all loads of the fuse.
- Connect a test light in place of the fuse.
- Establish conditions in which the test light comes on.

Example:

- [A] - Ignition SW on
- [B] - Ignition SW and SW 1 on
- [C] - Ignition SW, SW 1 and Relay on (Connect the Relay) and SW 2 off (or Disconnect SW 2)

- Disconnect and reconnect the connectors while watching the test light. The short lies between the connector where the test light stays lit and the connector where the light goes out.
- Find the exact location of the short by lightly shaking the problem wire along the body.

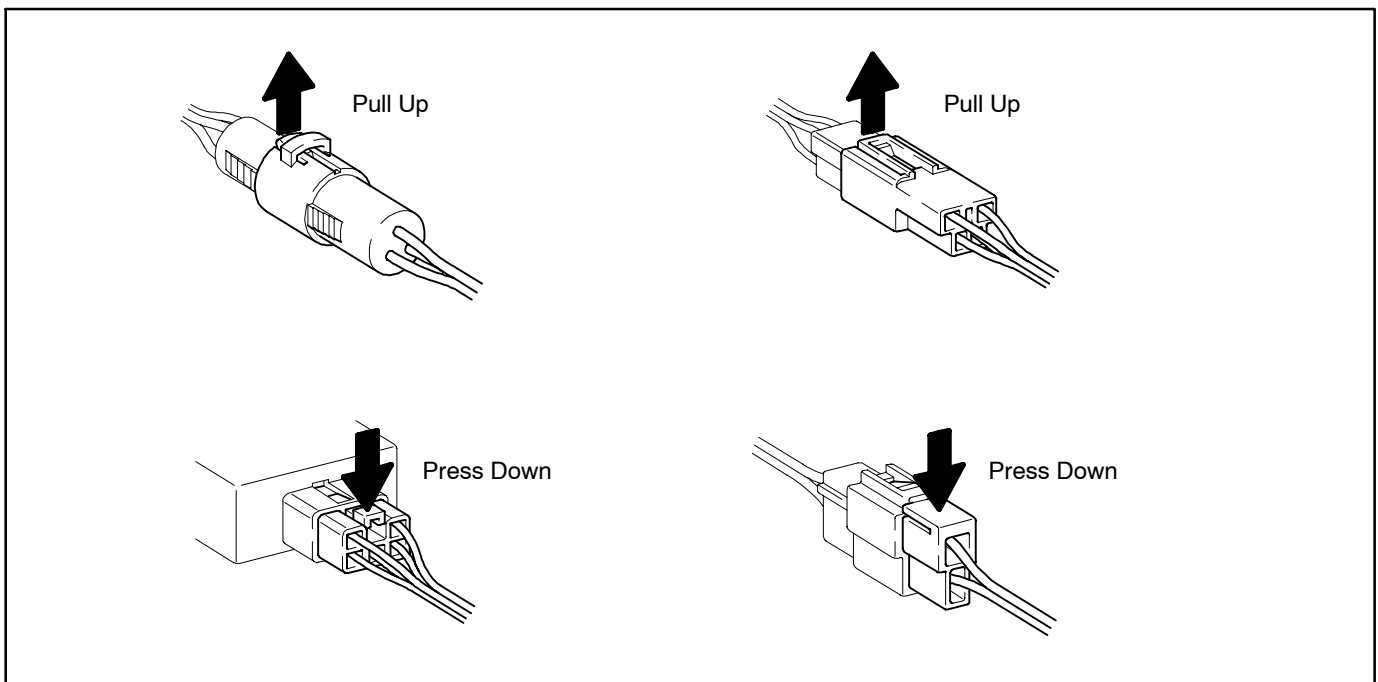
CAUTION:

- Do not open the cover or the case of the ECU unless absolutely necessary. (If the IC terminals are touched, the IC may be destroyed by static electricity.)**
- When replacing the internal mechanism (ECU part) of the digital meter, be careful that no part of your body or clothing comes in contact with the terminals of leads from the IC, etc. of the replacement part (spare part).**

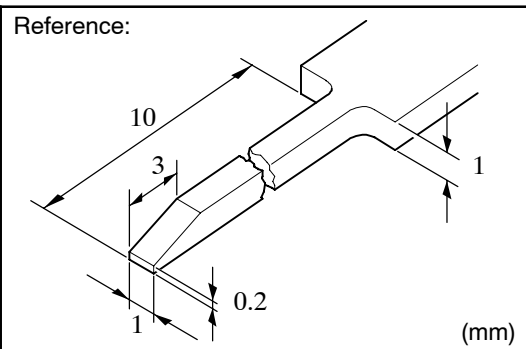
DISCONNECTION OF MALE AND FEMALE CONNECTORS

To pull apart the connectors, pull on the connector itself, not the wire harness.

HINT: Check to see what kind of connector you are disconnecting before pulling apart.



C TROUBLESHOOTING



HOW TO REPLACE TERMINAL (with terminal retainer or secondary locking device)

1. PREPARE THE SPECIAL TOOL

HINT : To remove the terminal from the connector, please construct and use the special tool or like object shown on the left.

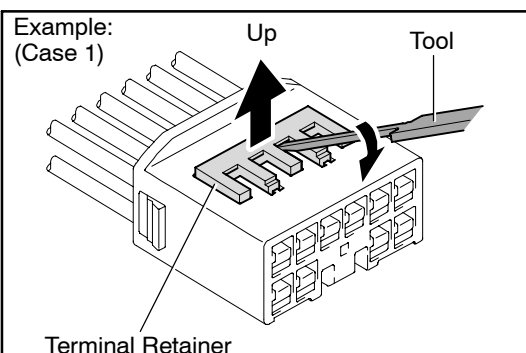
2. DISCONNECT CONNECTOR

3. DISENGAGE THE SECONDARY LOCKING DEVICE OR TERMINAL RETAINER.

- (a) Locking device must be disengaged before the terminal locking clip can be released and the terminal removed from the connector.
- (b) Use a special tool or the terminal pick to unlock the secondary locking device or terminal retainer.

NOTICE:

Do not remove the terminal retainer from connector body.

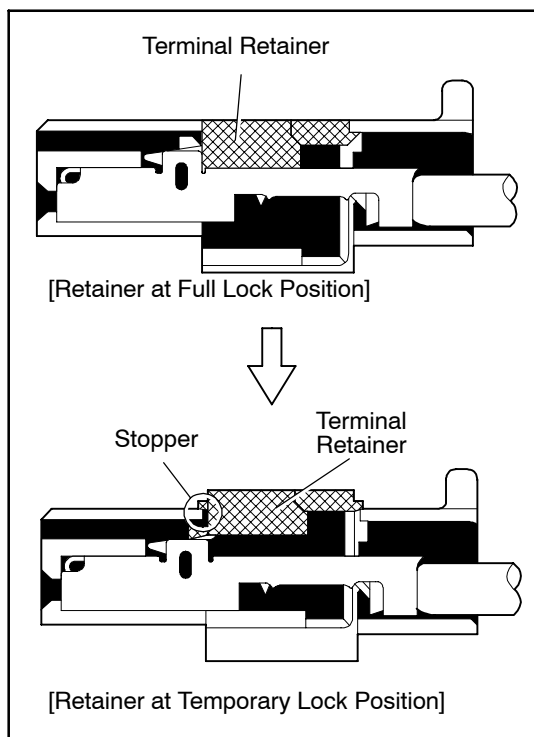


[A] For Non-Waterproof Type Connector

HINT : The needle insertion position varies according to the connector's shape (number of terminals etc.), so check the position before inserting it.

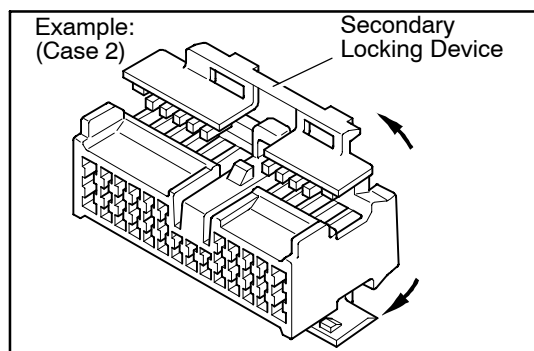
"Case 1"

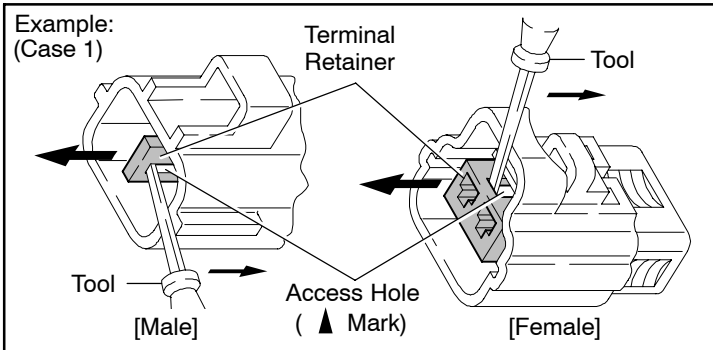
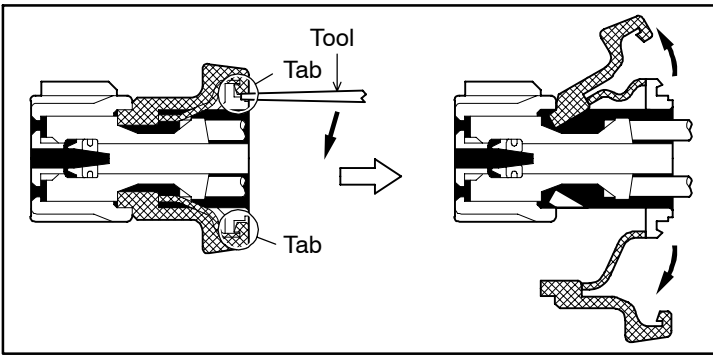
Raise the terminal retainer up to the temporary lock position.



"Case 2"

Open the secondary locking device.





[B] For Waterproof Type Connector

HINT : Terminal retainer color is different according to connector body.

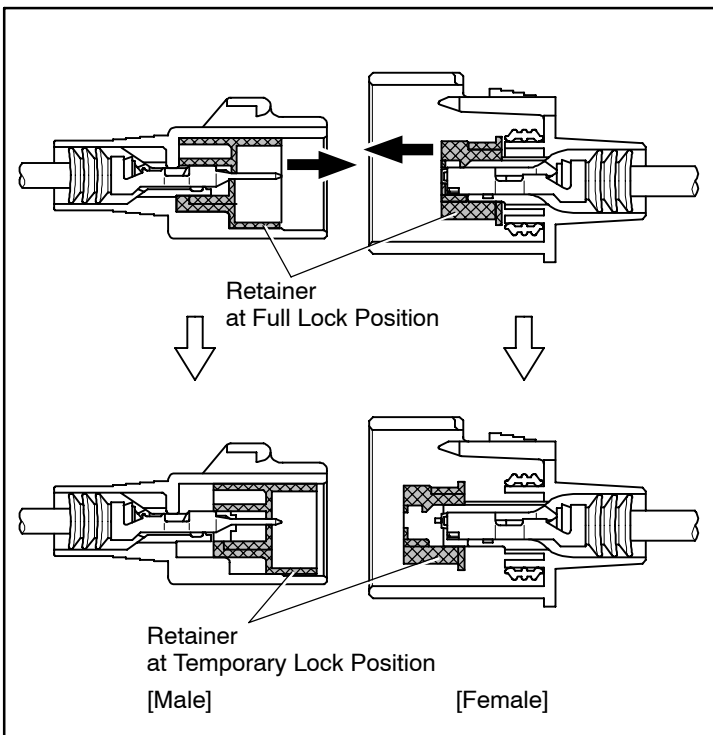
Example:

Terminal Retainer : Connector Body

Black or White : Gray

Black or White : Dark Gray

Gray or White : Black

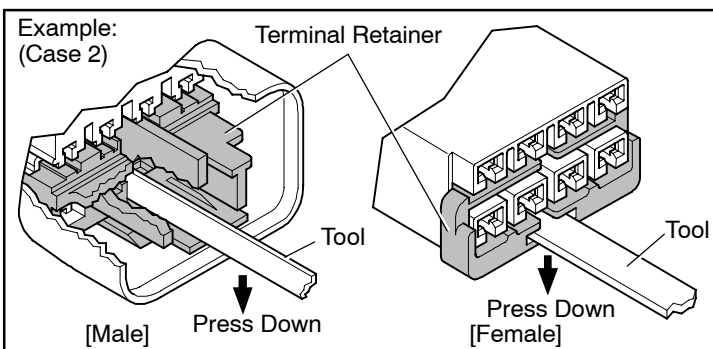


"Case 1"

Type where terminal retainer is pulled up to the temporary lock position (Pull Type).

Insert the special tool into the terminal retainer access hole (▲Mark) and pull the terminal retainer up to the temporary lock position.

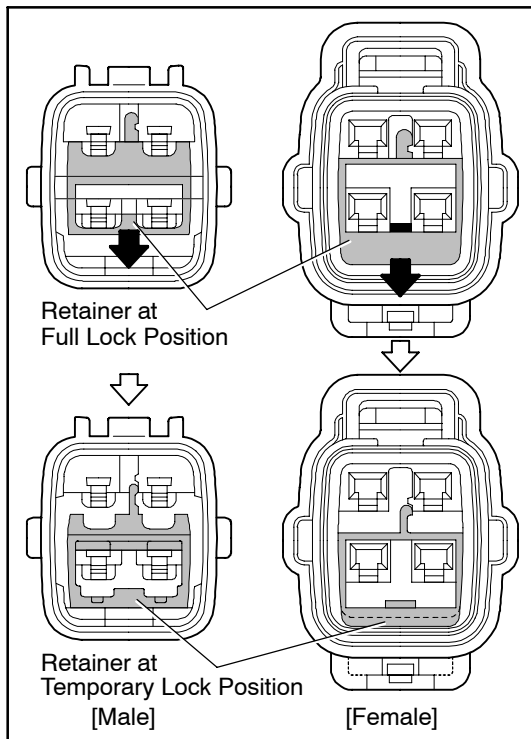
HINT : The needle insertion position varies according to the connector's shape (Number of terminals etc.), so check the position before inserting it.



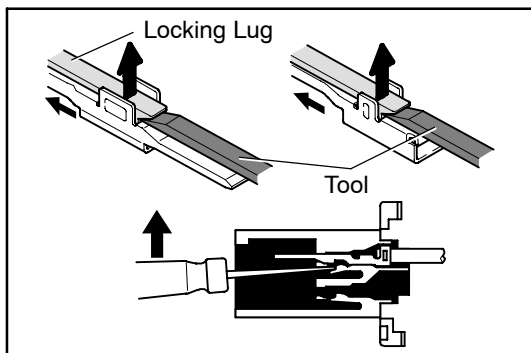
"Case 2"

Type which cannot be pulled as far as Power Lock insert the tool straight into the access hole of terminal retainer as shown.

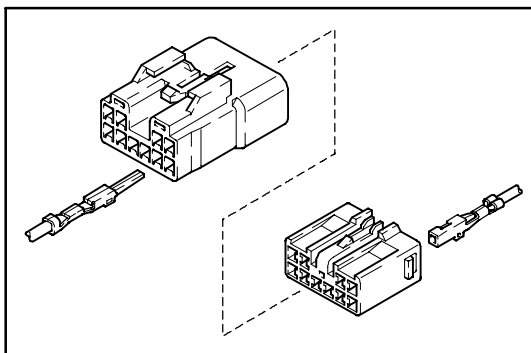
C TROUBLESHOOTING



Push the terminal retainer down to the temporary lock position.



(c) Release the locking lug from terminal and pull the terminal out from rear.



4. INSTALL TERMINAL TO CONNECTOR

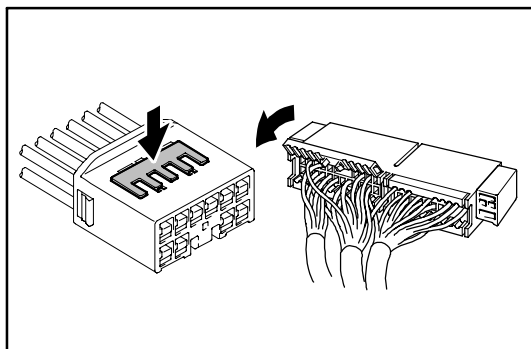
(a) Insert the terminal.

HINT:

1. Make sure the terminal is positioned correctly.
2. Insert the terminal until the locking lug locks firmly.
3. Insert the terminal with terminal retainer in the temporary lock position.

(b) Push the secondary locking device or terminal retainer in to the full lock position.

5. CONNECT CONNECTOR



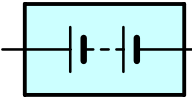
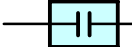
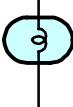
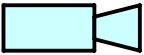
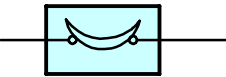
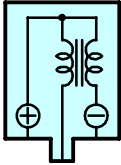
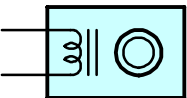
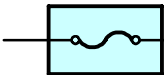
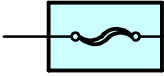
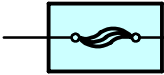
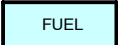
ABBREVIATIONS

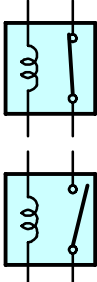
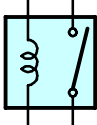
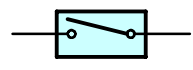
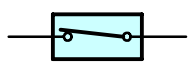
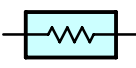
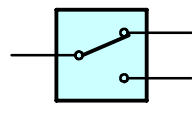
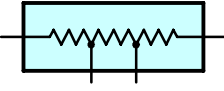
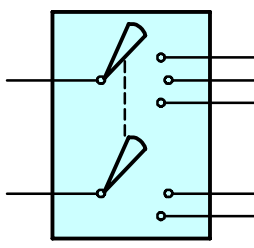
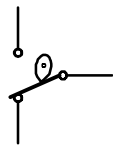
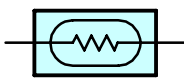
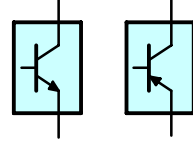
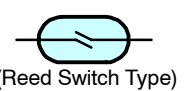
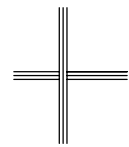
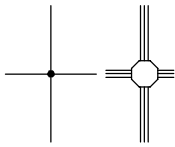
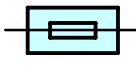
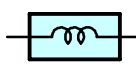
The following abbreviations are used in this manual.

2WD	=	Two Wheel Drive Vehicles
4WD	=	Four Wheel Drive Vehicles
A/C	=	Air Conditioning
A/T	=	Automatic Transmission
ABS	=	Anti-Lock Brake System
ACIS	=	Acoustic Control Induction System
ADD	=	Automatic Disconnecting Differential
COMB.	=	Combination
DVD	=	Digital Versatile Disc
ECU	=	Electronic Control Unit
ESA	=	Electronic Spark Advance
ETCS-i	=	Electronic Throttle Control System-intelligent
EVAP	=	Evaporative Emission
J/B	=	Junction Block
LH	=	Left-Hand
O/D	=	Overdrive
R/B	=	Relay Block
RH	=	Right-Hand
SFI	=	Sequential Multiport Fuel Injection
SRS	=	Supplemental Restraint System
SW	=	Switch
TEMP.	=	Temperature
TRAC	=	Traction Control
VSC	=	Vehicle Stability Control
VSV	=	Vacuum Switching Valve
w/	=	With
w/o	=	Without

* The titles given inside the components are the names of the terminals (terminal codes) and are not treated as being abbreviations.

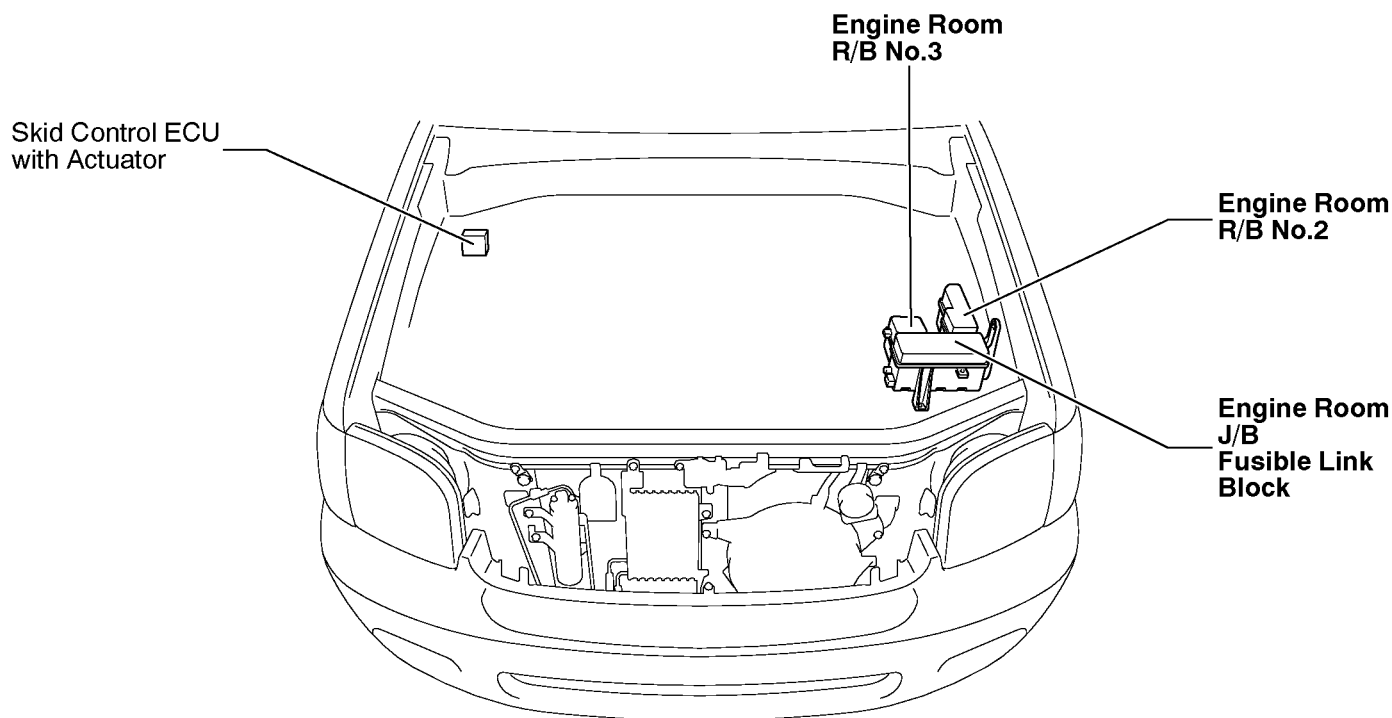
E GLOSSARY OF TERMS AND SYMBOLS

 BATTERY Stores chemical energy and converts it into electrical energy. Provides DC current for the auto's various electrical circuits.	 GROUND The point at which wiring attaches to the Body, thereby providing a return path for an electrical circuit; without a ground, current cannot flow.
 CAPACITOR (Condenser) A small holding unit for temporary storage of electrical voltage.	HEADLIGHTS Current flow causes a headlight filament to heat up and emit light. A headlight may have either a single (1) filament or a double (2) filament 1. SINGLE FILAMENT  2. DOUBLE FILAMENT 
 CIGARETTE LIGHTER An electric resistance heating element.	
 CIRCUIT BREAKER Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.	 HORN An electric device which sounds a loud audible signal.
 DIODE A semiconductor which allows current flow in only one direction.	 IGNITION COIL Converts low-voltage DC current into high-voltage ignition current for firing the spark plugs.
 DIODE, ZENER A diode which allows current flow in one direction but blocks reverse flow only up to a specific voltage. Above that potential, it passes the excess voltage. This acts as a simple voltage regulator.	 LIGHT Current flow through a filament causes the filament to heat up and emit light.
 PHOTODIODE The photodiode is a semiconductor which controls the current flow according to the amount of light.	 LED (LIGHT EMITTING DIODE) Upon current flow, these diodes emit light without producing the heat of a comparable light.
 DISTRIBUTOR, IIA Channels high-voltage current from the ignition coil to the individual spark plugs.	 METER, ANALOG Current flow activates a magnetic coil which causes a needle to move, thereby providing a relative display against a background calibration.
 FUSE A thin metal strip which burns through when too much current flows through it, thereby stopping current flow and protecting a circuit from damage.  FUSIBLE LINK A heavy-gauge wire placed in high amperage circuits which burns through on overloads, thereby protecting the circuit. The numbers indicate the crosssection surface area of the wires.  (for Medium Current Fuse) (for High Current Fuse or Fusible Link)	 METER, DIGITAL Current flow activates one or many LED's, LCD's, or fluorescent displays, which provide a relative or digital display.
	 MOTOR A power unit which converts electrical energy into mechanical energy, especially rotary motion.

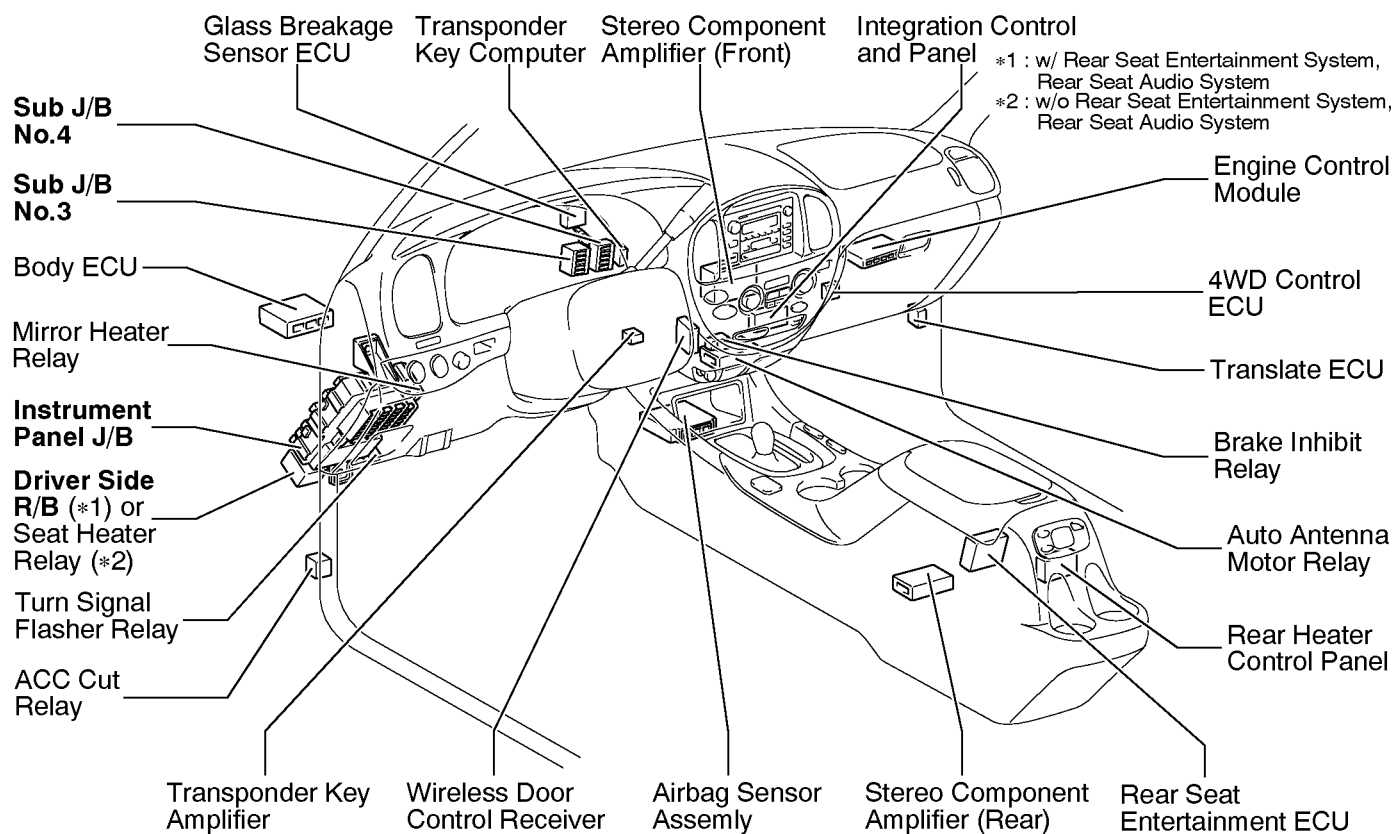
 RELAY Basically, an electrically operated switch which may be normally closed (1) or open (2). Current flow through a small coil creates a magnetic field which either opens or closes an attached switch.	 SPEAKER An electromechanical device which creates sound waves from current flow.
 RELAY, DOUBLE THROW A relay which passes current through one set of contacts or the other.	SWITCH, MANUAL Opens and closes circuits, thereby stopping (1) or allowing (2) current flow.  
 RESISTOR An electrical component with a fixed resistance, placed in a circuit to reduce voltage to a specific value.	SWITCH, DOUBLE THROW A switch which continuously passes current through one set of contacts or the other. 
 RESISTOR, TAPPED A resistor which supplies two or more different non adjustable resistance values.	SWITCH, IGNITION A key operated switch with several positions which allows various circuits, particularly the primary ignition circuit, to become operational. 
 RESISTOR, VARIABLE or RHEOSTAT A controllable resistor with a variable rate of resistance. Also called a potentiometer or rheostat.	SWITCH, WIPER PARK Automatically returns wipers to the stop position when the wiper switch is turned off. 
 SENSOR (Thermistor) A resistor which varies its resistance with temperature.	TRANSISTOR A solidstate device typically used as an electronic relay; stops or passes current depending on the voltage applied at "base". 
 SENSOR, SPEED Uses magnetic impulses to open and close a switch to create a signal for activation of other components.	WIRES (1) NOT CONNECTED  (2) SPLICED  Wires are always drawn as straight lines on wiring diagrams. Crossed wires (1) without a black dot at the junction are not joined; crossed wires (2) with a black dot or octagonal mark at the junction are spliced (joined) connections.
 SHORT PIN Used to provide an unbroken connection within a junction block.	
 SOLENOID An electromagnetic coil which forms a magnetic field when current flows, to move a plunger, etc.	

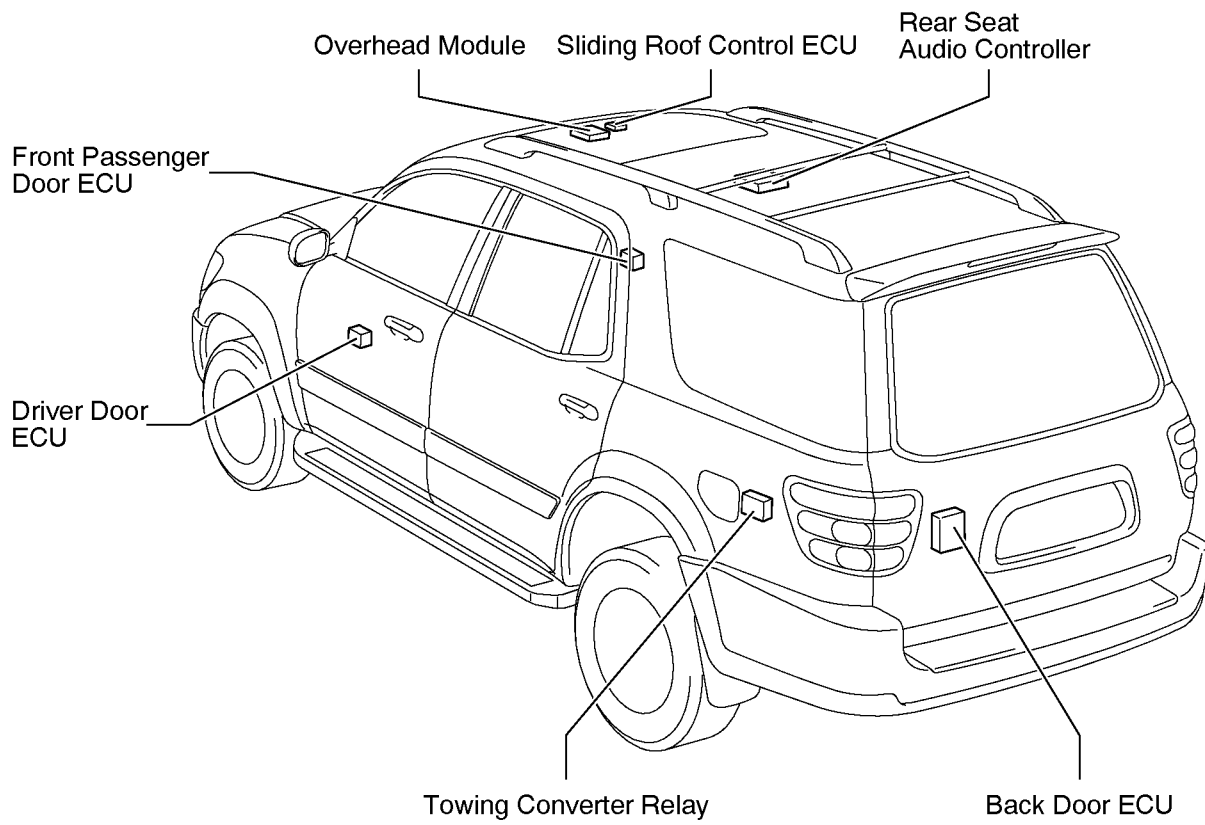
F RELAY LOCATIONS

[Engine Compartment]



[Instrument Panel]

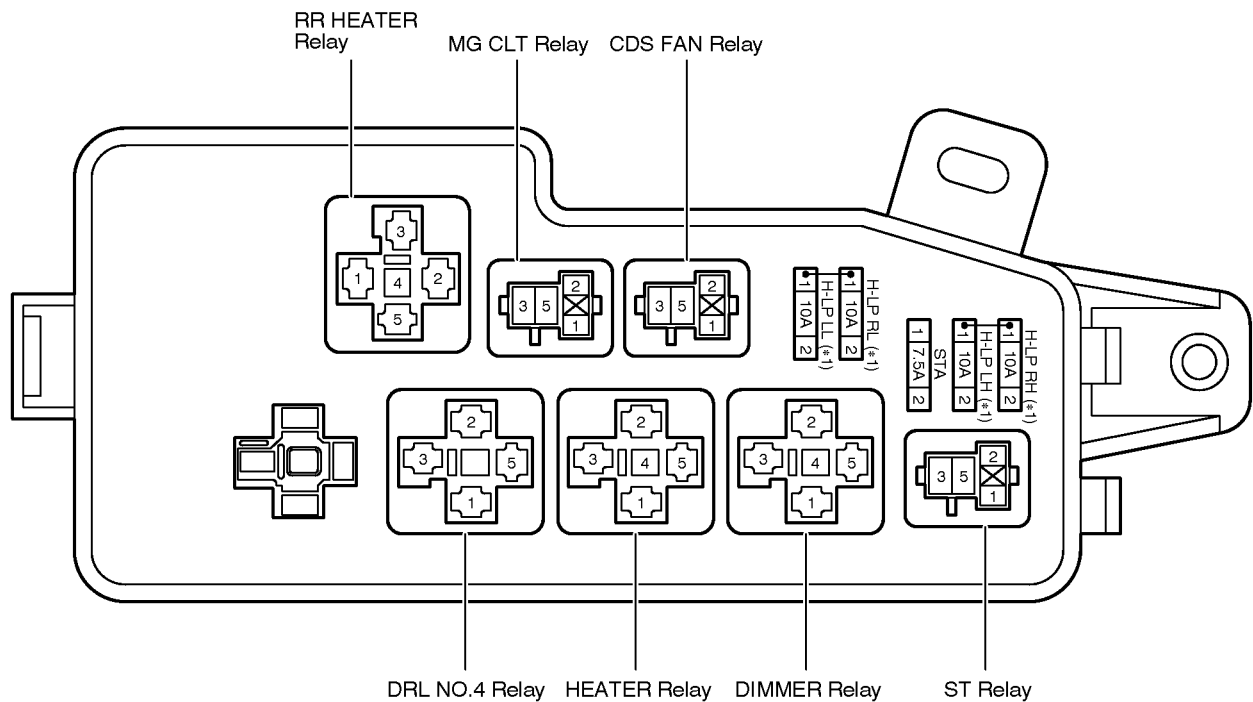


[Body]

F RELAY LOCATIONS

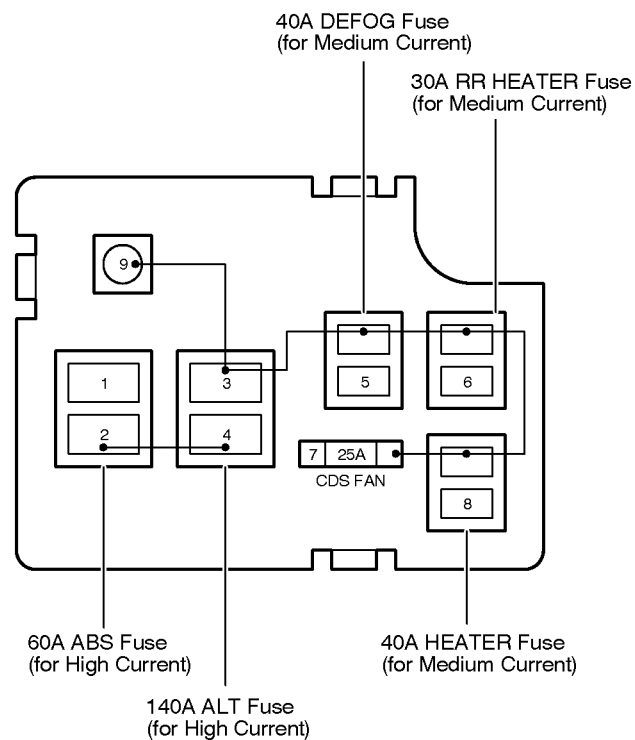
② : Engine Room R/B No.2 **Engine Compartment Left (See Page 20)**

*1 : w/ Daytime Running Light

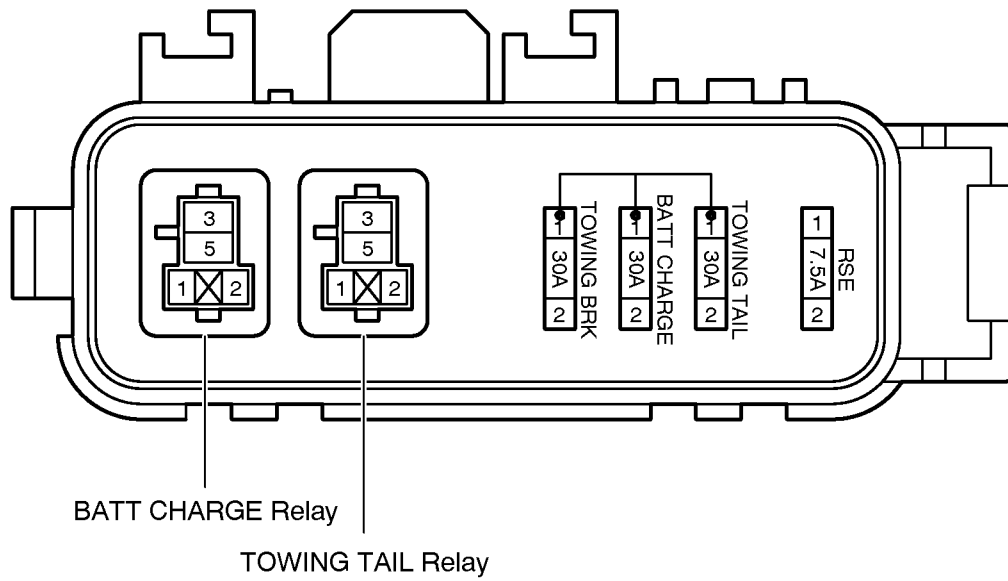


Fusible Link Block

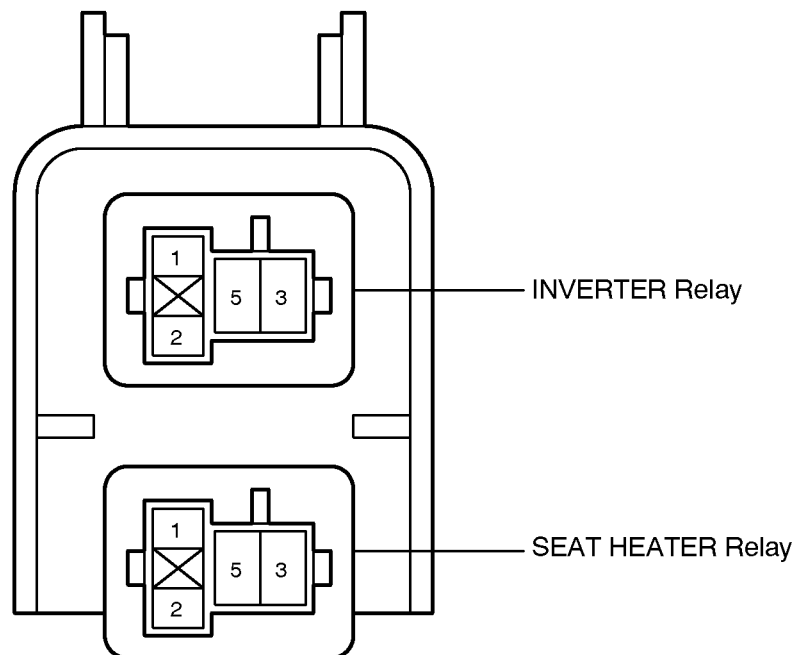
Engine Compartment Left (See Page 20)
[Inside Engine Room J/B]



③ : Engine Room R/B No.3 [Engine Compartment Left \(See Page 20\)](#)



⑤ : Driver Side R/B [Under the Instrument Panel J/B \(See Page 20\)](#)

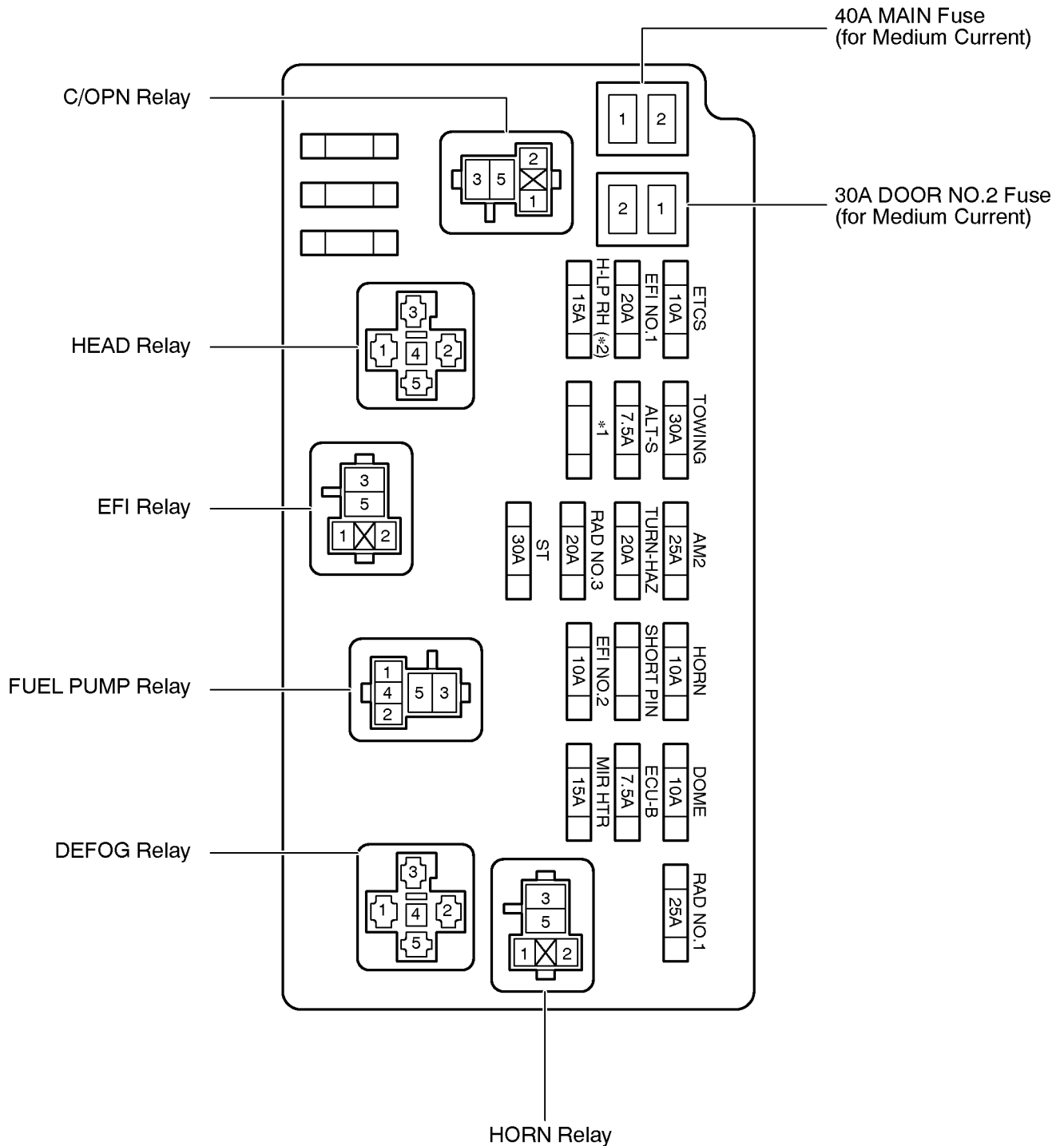


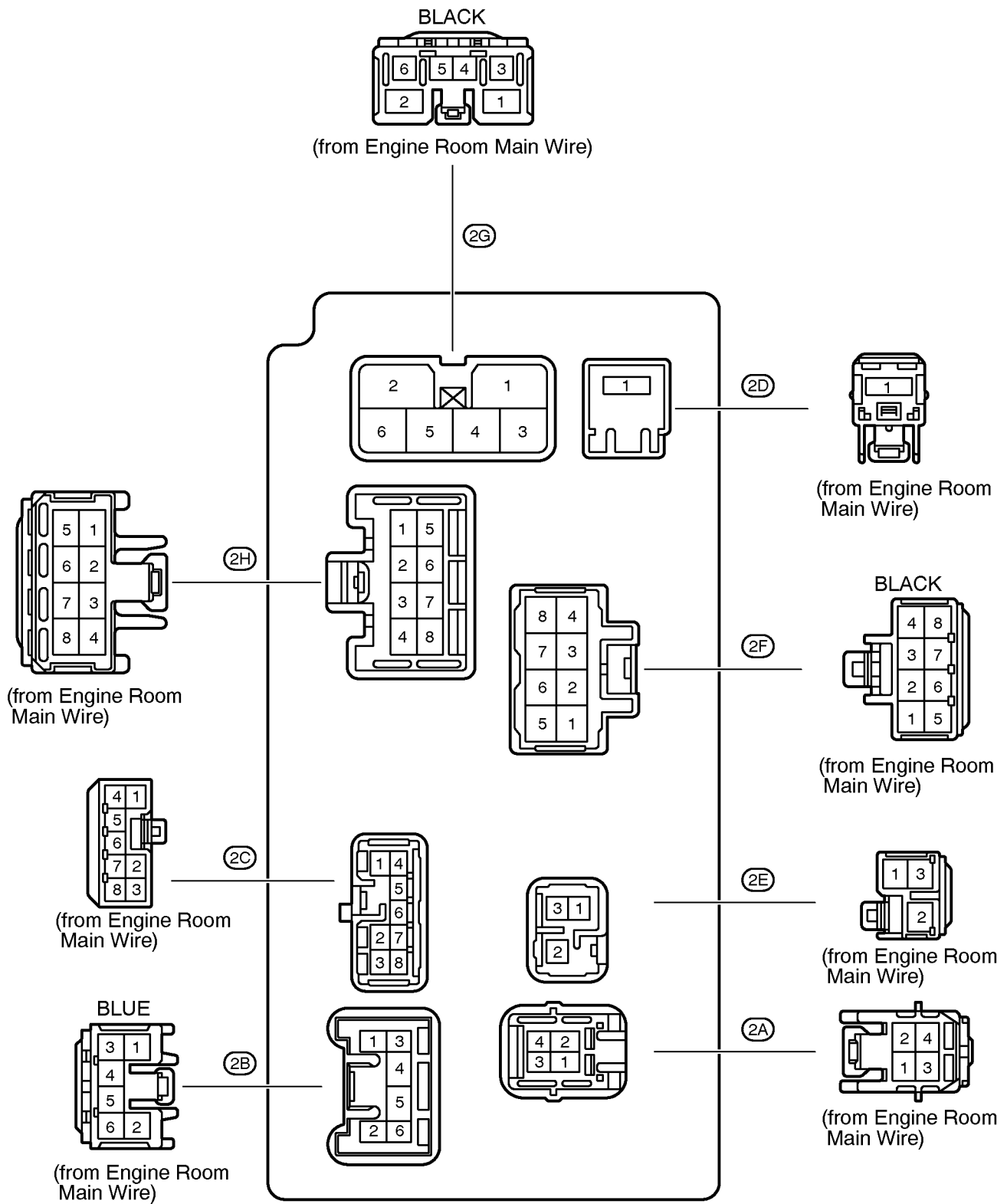
F RELAY LOCATIONS

○ : Engine Room J/B

Engine Compartment Left (See Page 20)

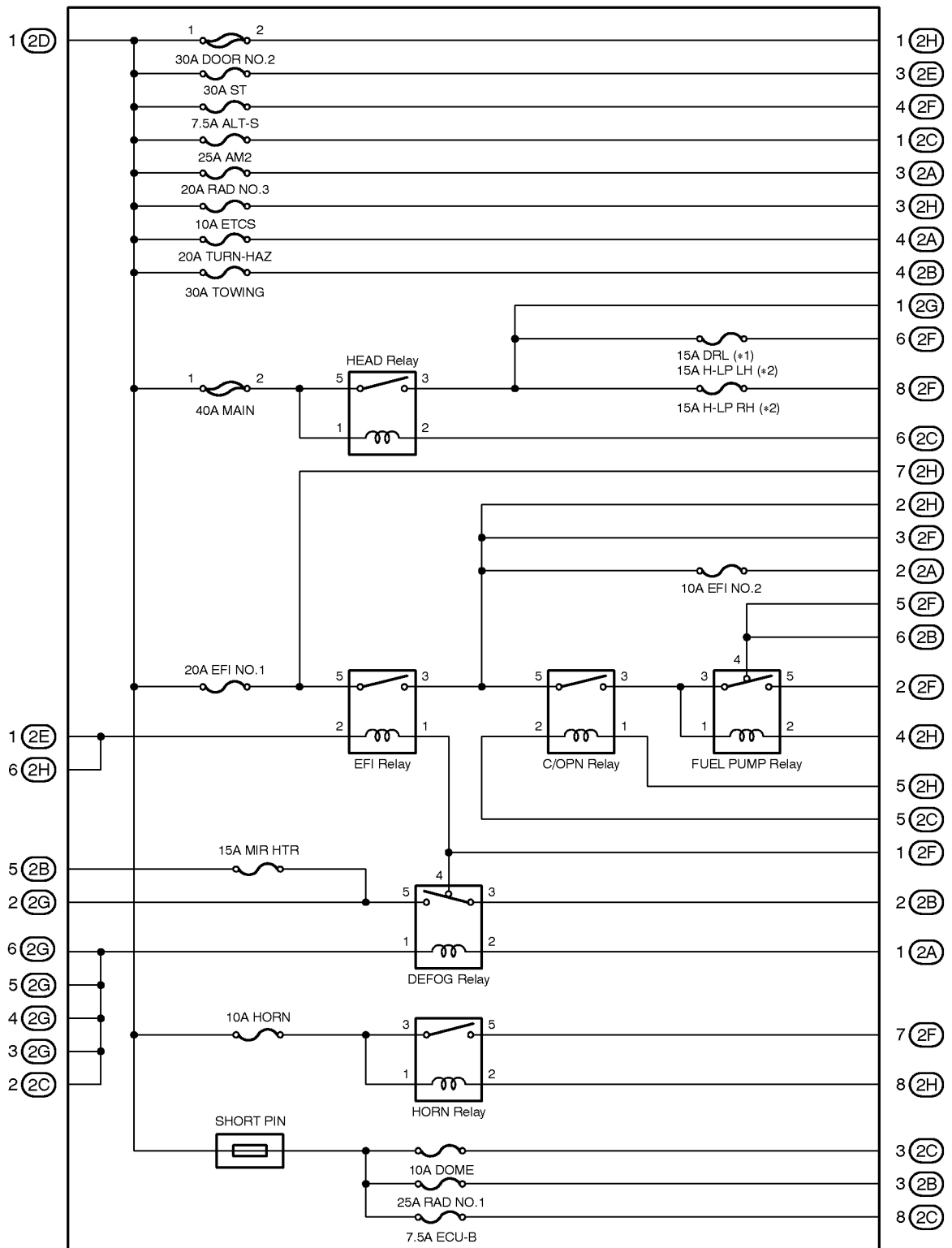
- *1 : 15A DRL (w/ Daytime Running Light)
15A H-LP LH (w/o Daytime Running Light)
- *2 : w/o Daytime Running Light





F RELAY LOCATIONS

[Engine Room J/B Inner Circuit]

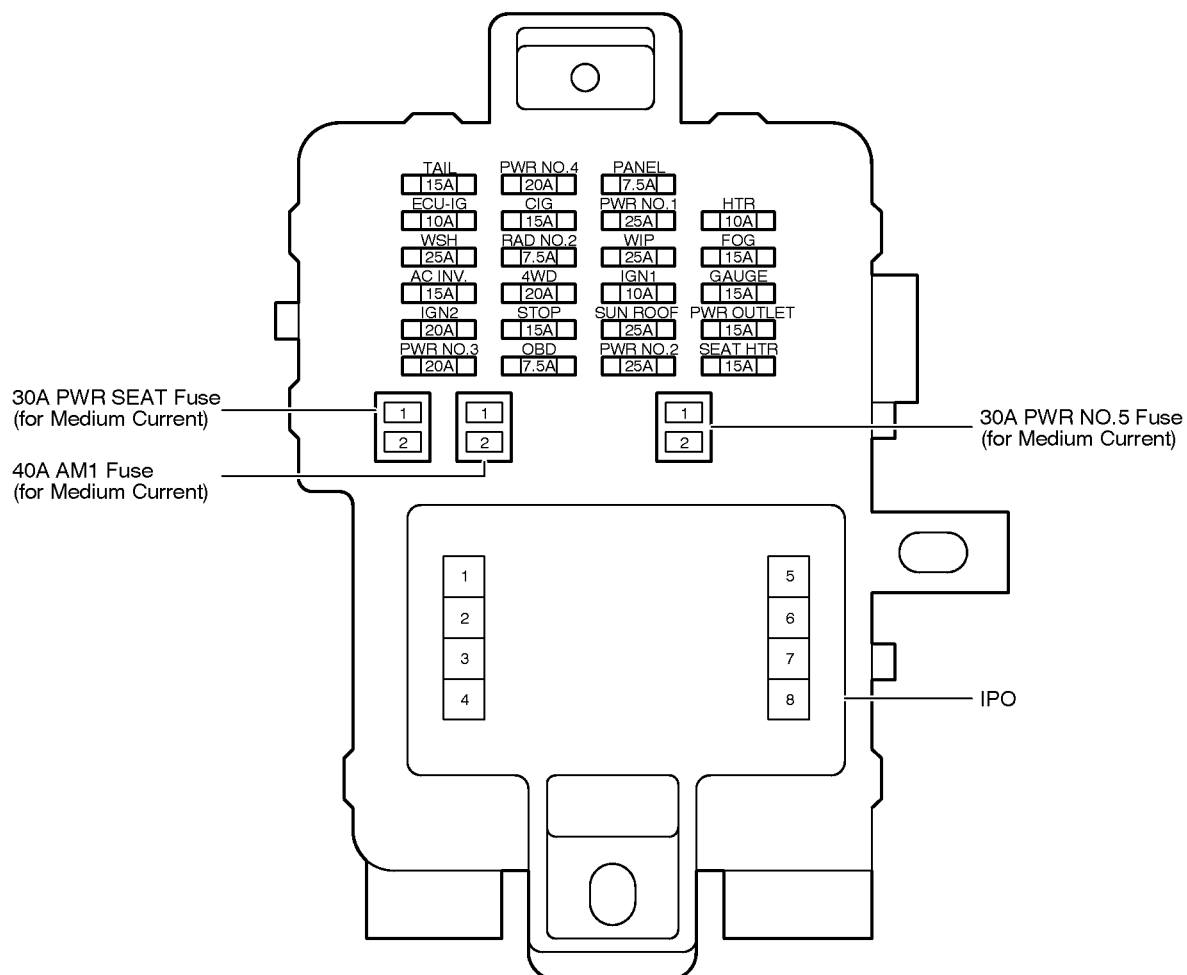


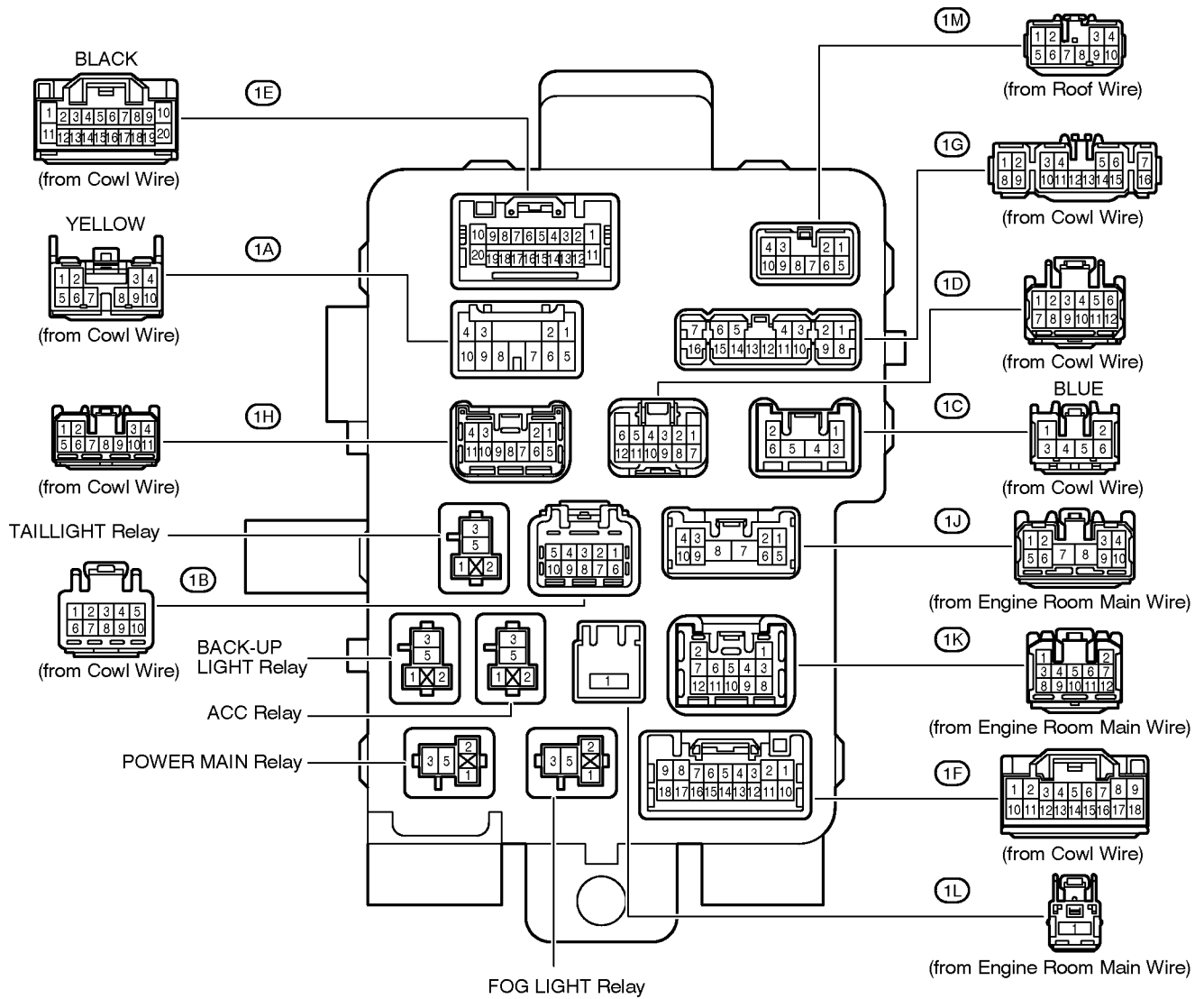
*1 : w/ Daytime Running Light
*2 : w/o Daytime Running Light

F RELAY LOCATIONS

○ : Instrument Panel J/B

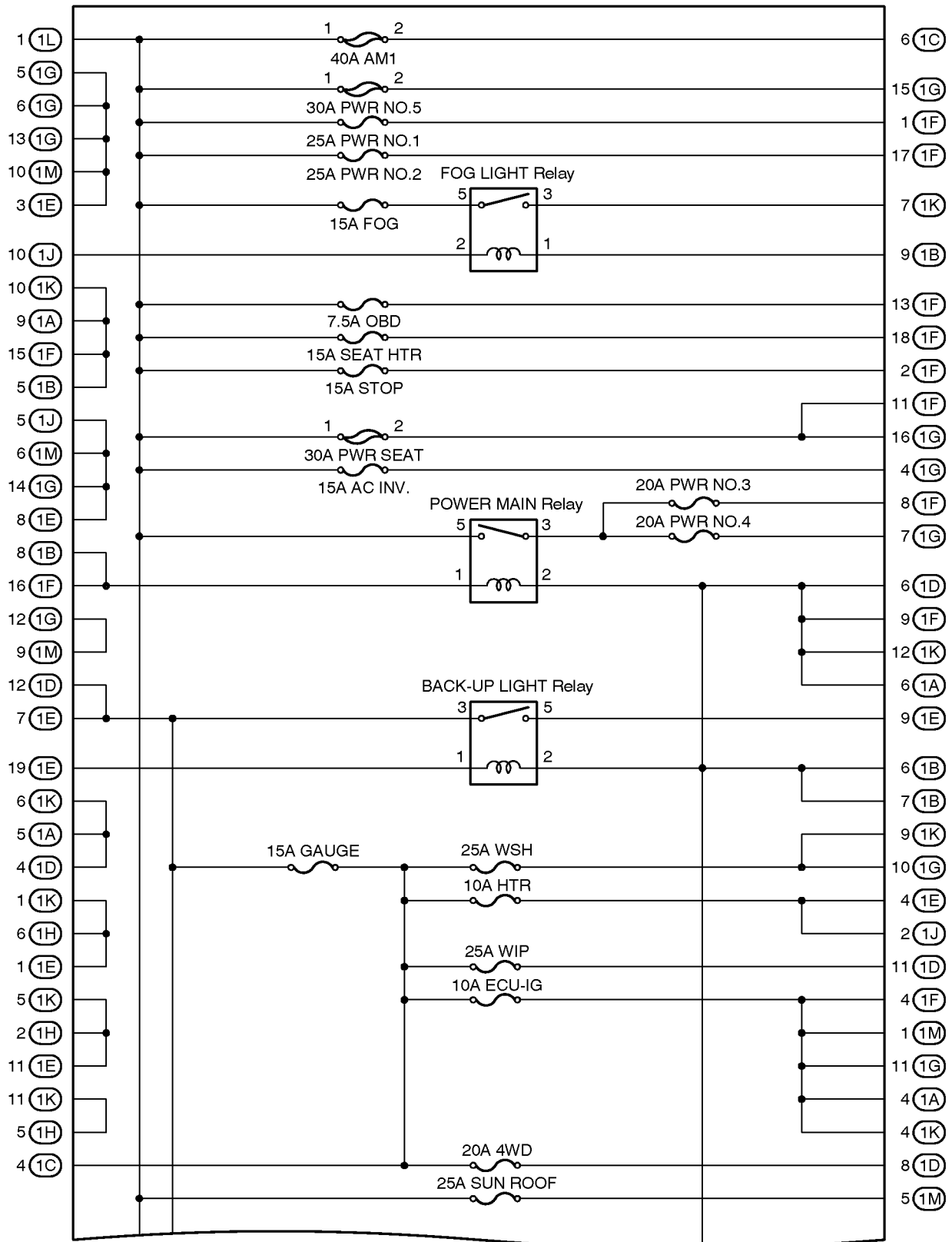
Lower Finish Panel (See Page 20)





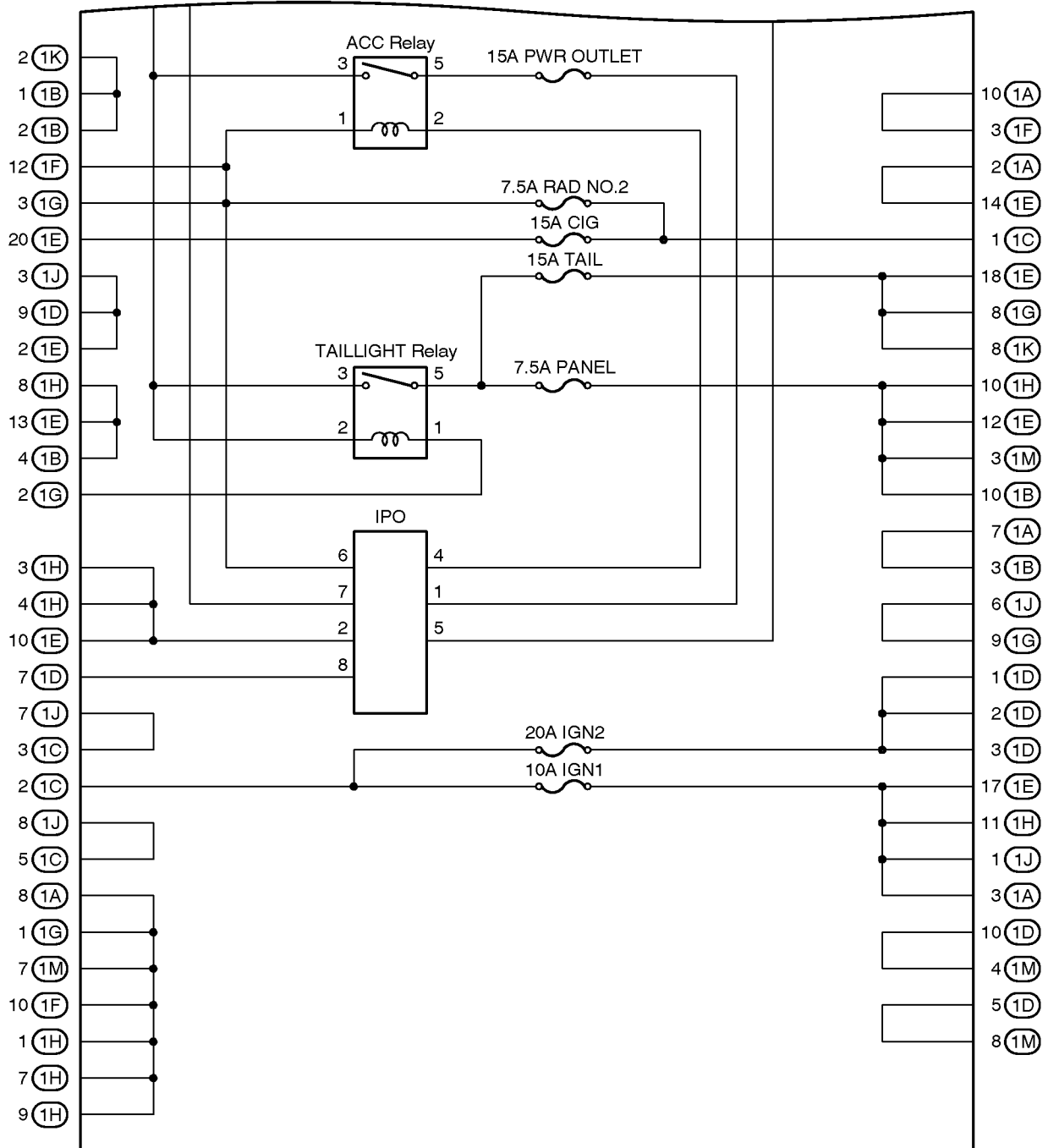
F RELAY LOCATIONS

[Instrument Panel J/B Inner Circuit]



(Cont. Next Page)

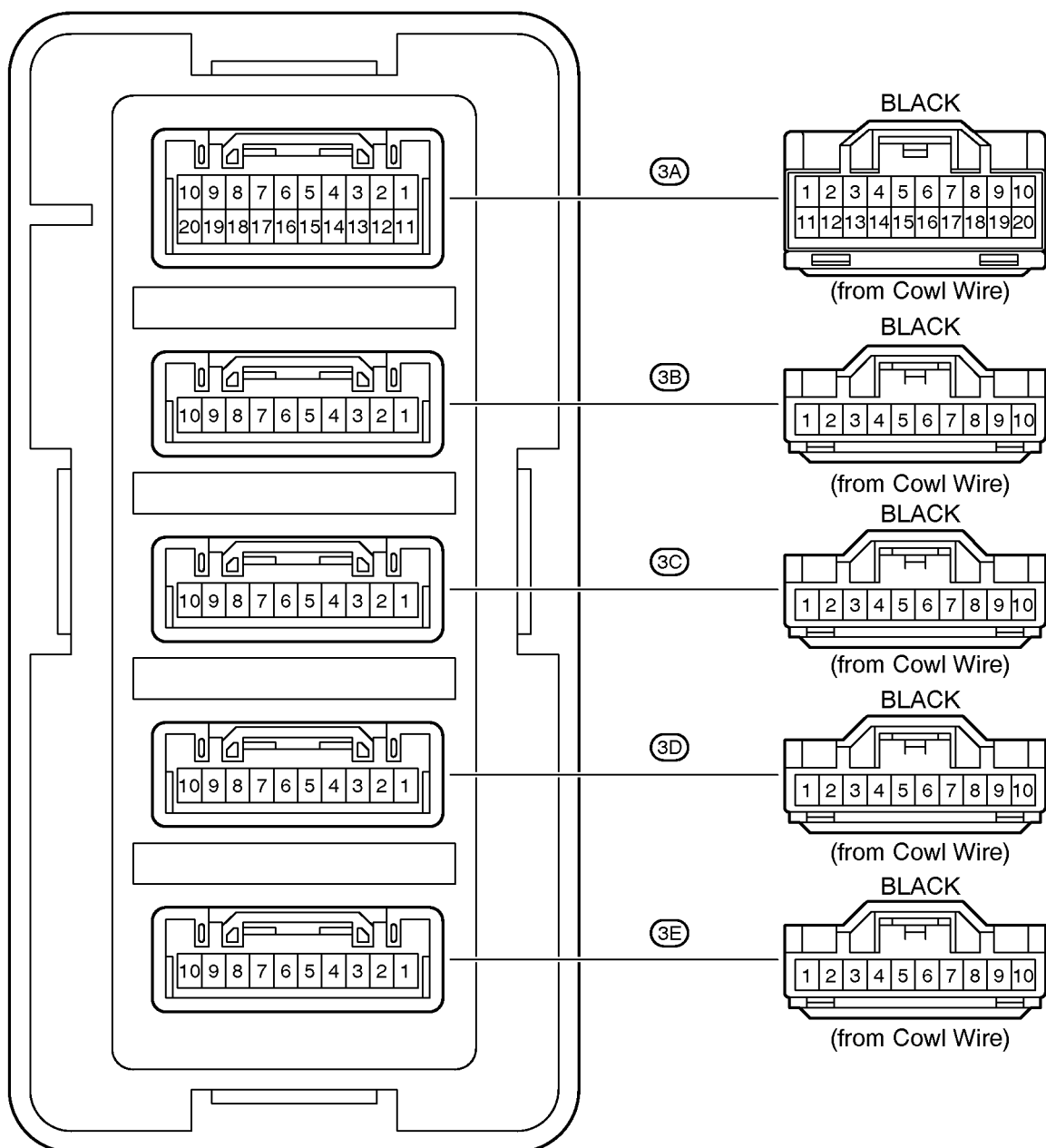
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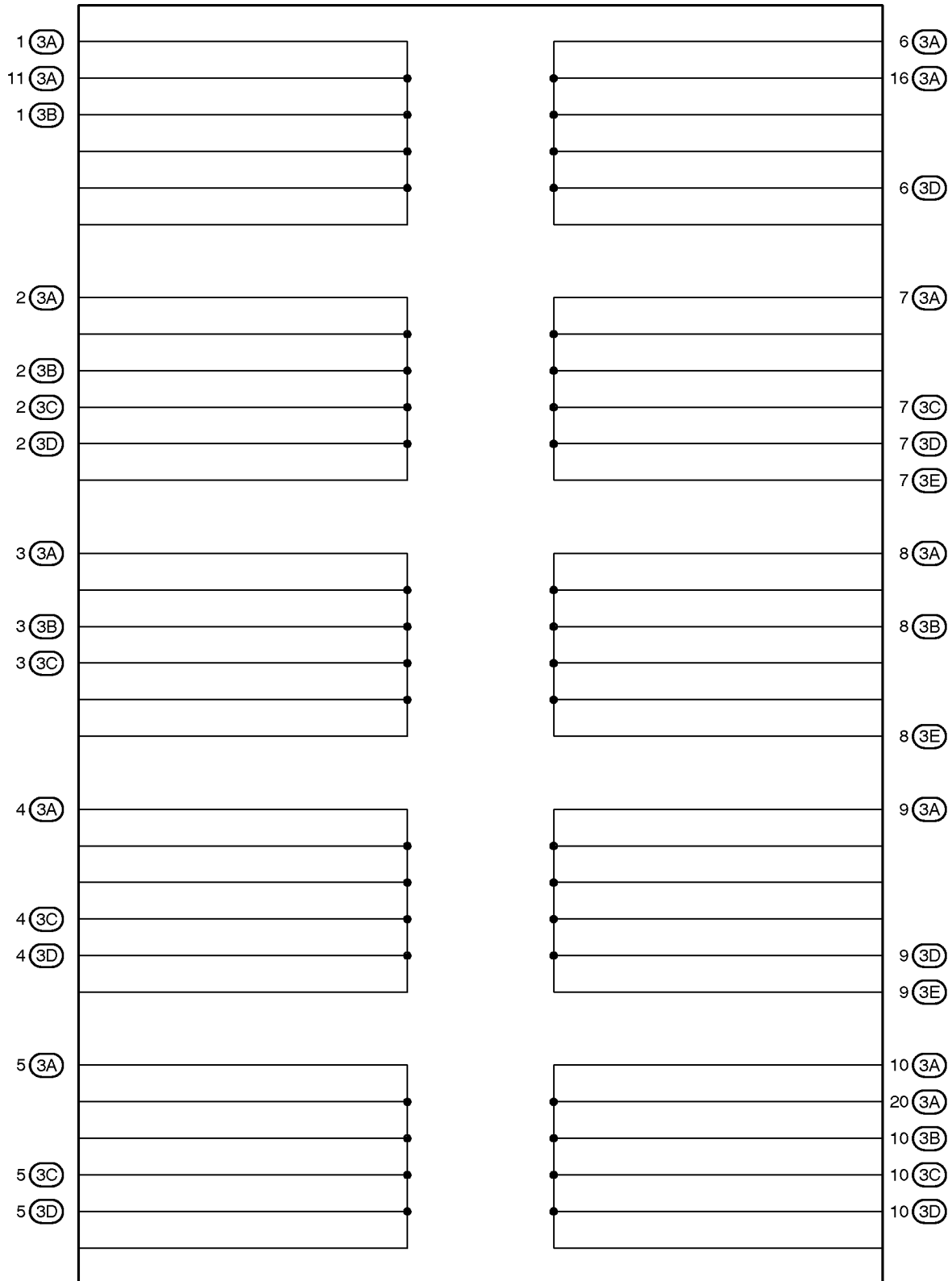


F RELAY LOCATIONS

○ : Sub J/B No.3

Upper the Accelerator Pedal (See Page 20)

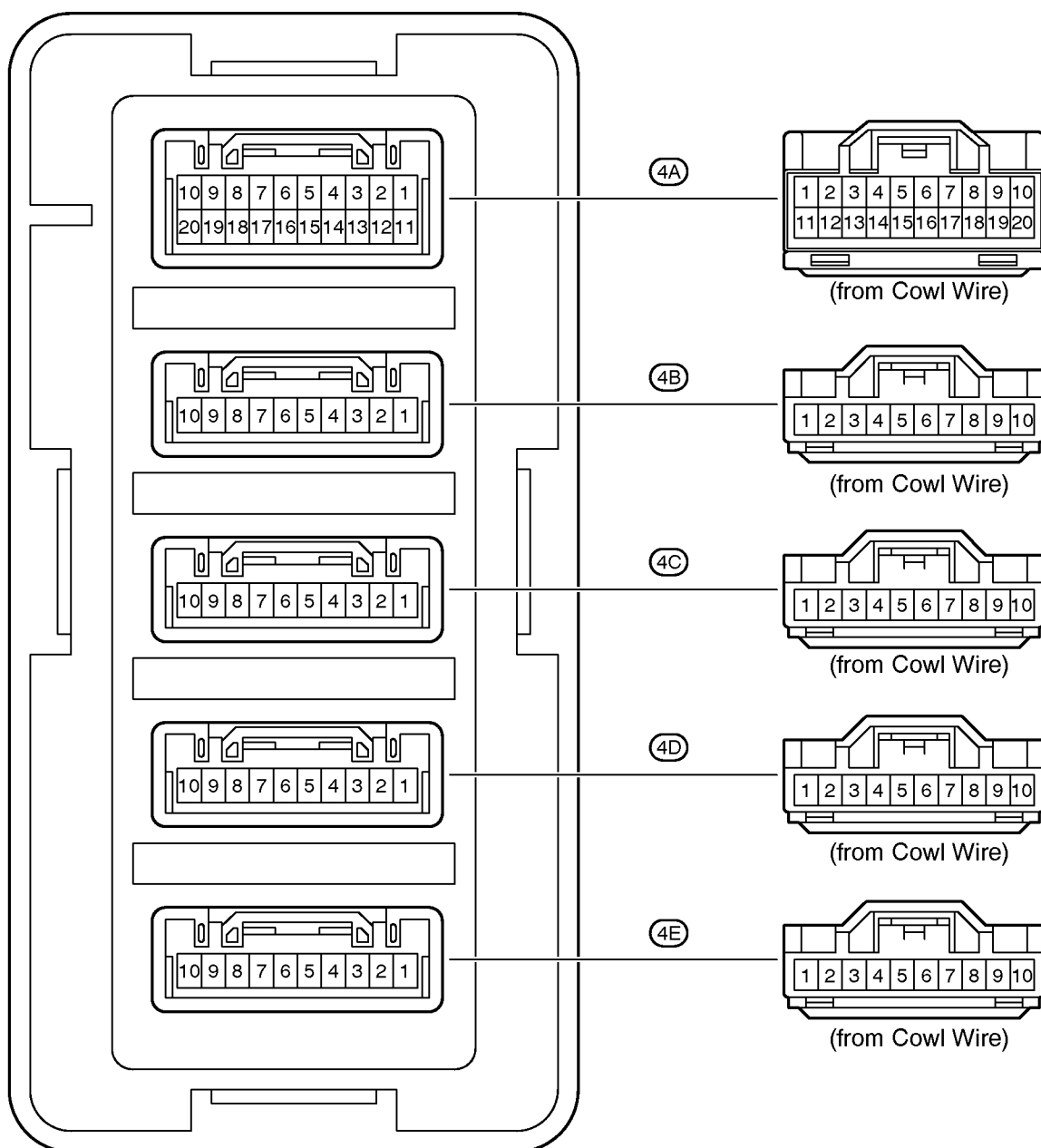


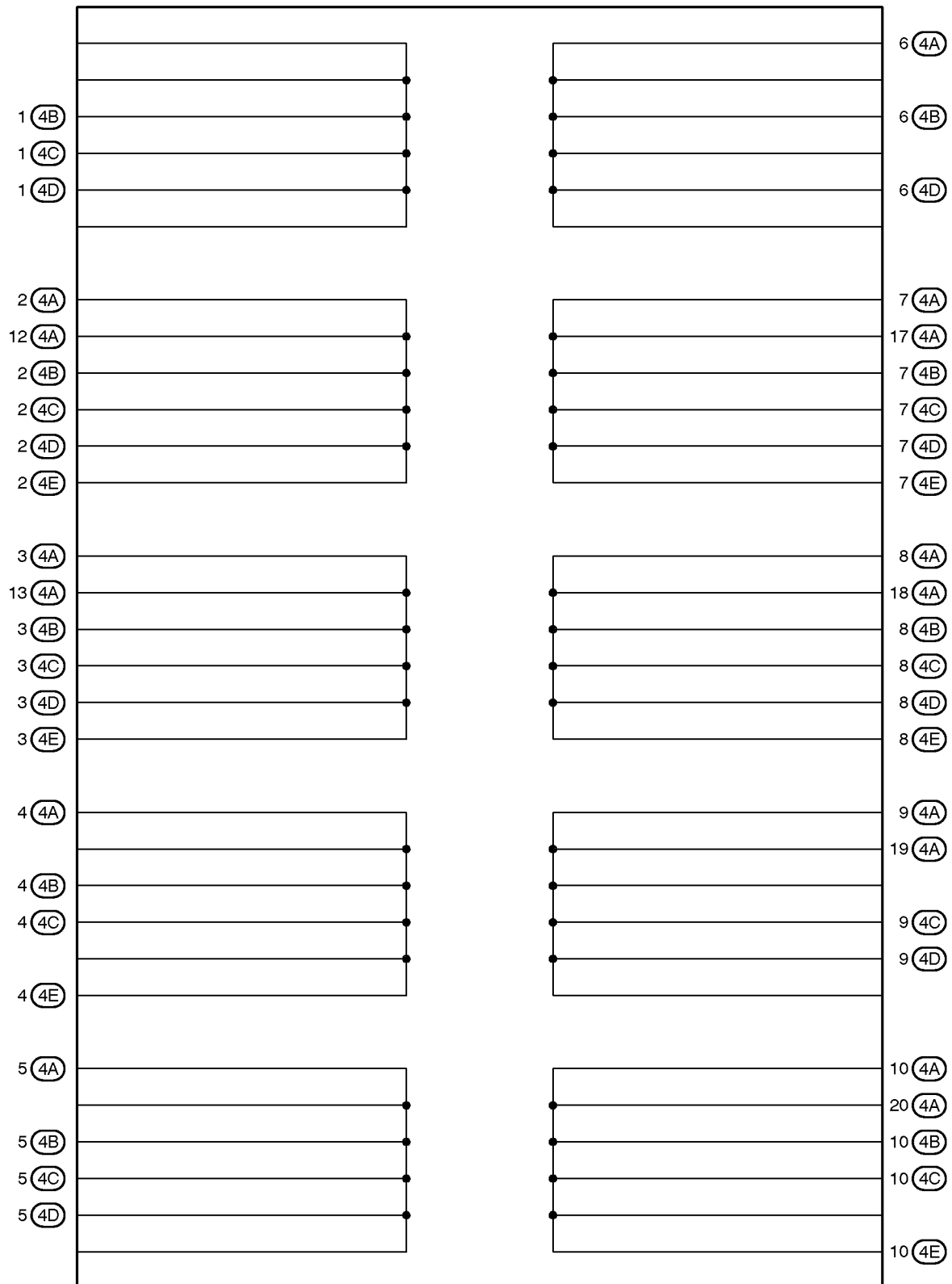
[Sub J/B No.3 Inner Circuit]

F RELAY LOCATIONS

○ : Sub J/B No.4

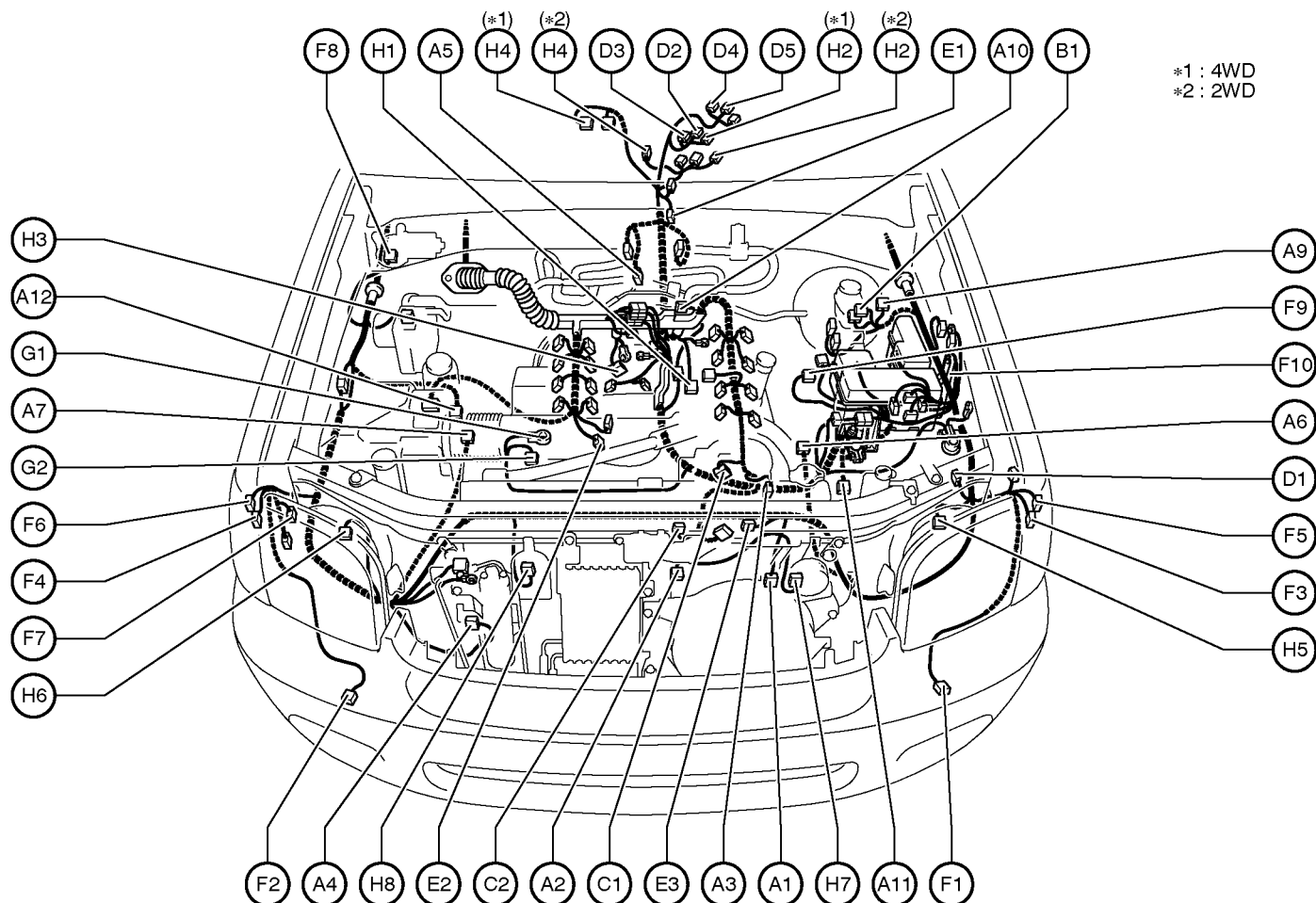
Upper the Accelerator Pedal (See Page 20)



[Sub J/B No.4 Inner Circuit]

G ELECTRICAL WIRING ROUTING

Position of Parts in Engine Compartment



*1 : 4WD
*2 : 2WD

- A 1 A/C Ambient Temp. Sensor
- A 2 A/C Condenser Fan Motor
- A 3 A/C Magnetic Clutch and Lock Sensor
- A 4 A/C Triple Pressure SW
(A/C Dual and Single Pressure SW)
- A 5 A/T Oil Temp. Sensor
- A 6 ABS Speed Sensor Front LH
- A 7 ABS Speed Sensor Front RH
- A 9 Active Brake Booster
- A10 ADD Actuator
- A11 Airbag Sensor Front LH
- A12 Airbag Sensor Front RH

- B 1 Brake Fluid Level Warning SW

- C 1 Camshaft Position Sensor
- C 2 Crankshaft Position Sensor

- D 1 Daytime Running Light Resistor
- D 2 Detection SW (Transfer L4 Position)
- D 3 Detection SW (Transfer Neutral Position)
- D 4 Detection SW (Transfer Position SW No.1)
- D 5 Detection SW (Transfer Position SW No.2)

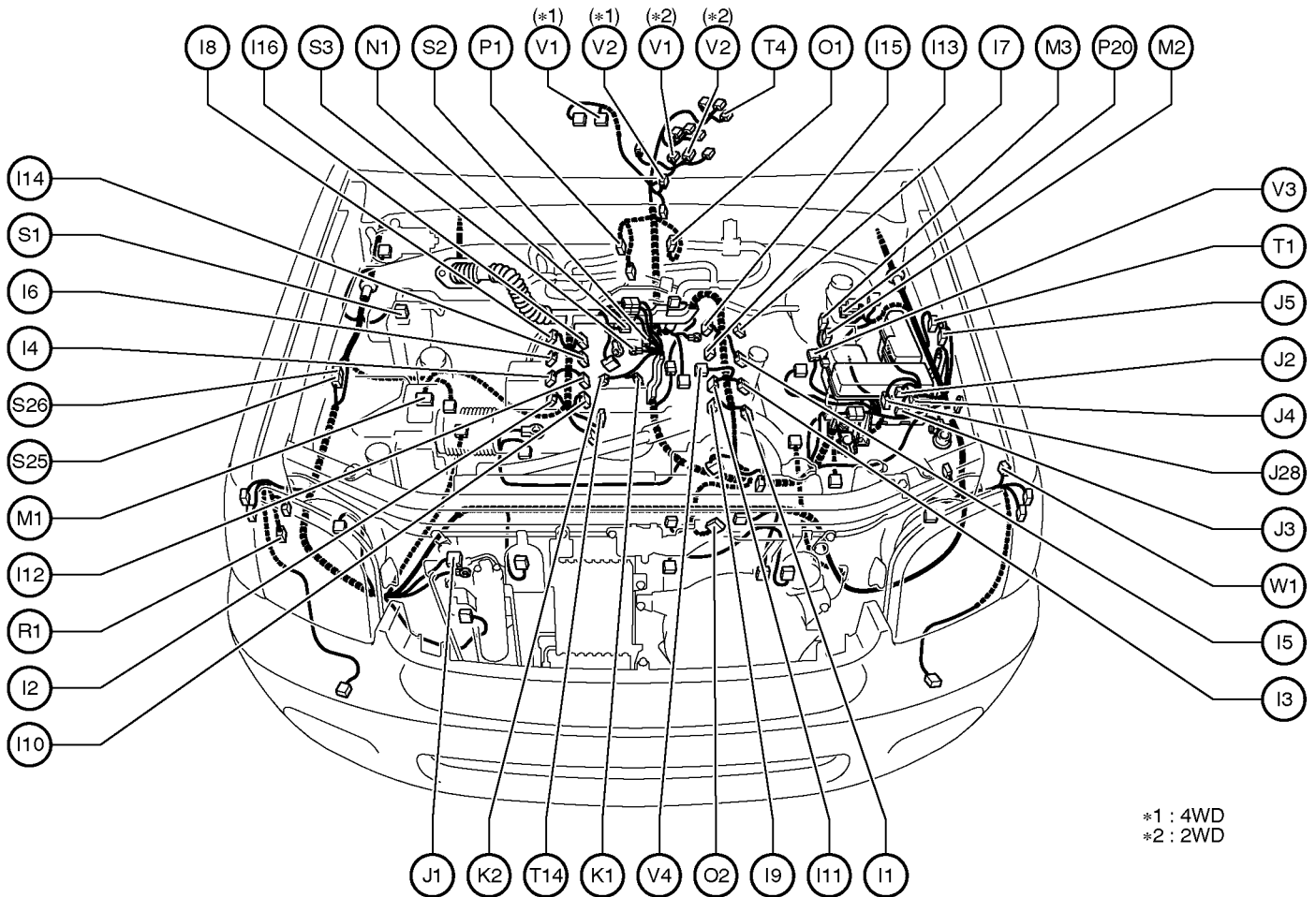
- E 1 Electronically Controlled Transmission Solenoid
- E 2 Engine Coolant Temp. Sensor
- E 3 Engine Hood Courtesy SW

- F 1 Front Fog Light LH
- F 2 Front Fog Light RH
- F 3 Front Turn Signal and Parking Light LH No.1
- F 4 Front Turn Signal and Parking Light RH No.1
- F 5 Front Turn Signal and Parking Light LH No.2
- F 6 Front Turn Signal and Parking Light RH No.2
- F 7 Front Washer Motor and Washer Level Sensor
- F 8 Front Wiper Motor
- F 9 Fuel Pump Resistor
- F10 Fusible Link Block

- G 1 Generator
- G 2 Generator

- H 1 Heated Oxygen Sensor (Bank 1 Sensor 1)
- H 2 Heated Oxygen Sensor (Bank 1 Sensor 2)
- H 3 Heated Oxygen Sensor (Bank 2 Sensor 1)
- H 4 Heated Oxygen Sensor (Bank 2 Sensor 2)
- H 5 Headlight LH
- H 6 Headlight RH
- H 7 Horn (High)
- H 8 Horn (Low)

Position of Parts in Engine Compartment



*1 : 4WD
*2 : 2WD

I 1 Ignition Coil and Igniter No.1
I 2 Ignition Coil and Igniter No.2
I 3 Ignition Coil and Igniter No.3
I 4 Ignition Coil and Igniter No.4
I 5 Ignition Coil and Igniter No.5
I 6 Ignition Coil and Igniter No.6
I 7 Ignition Coil and Igniter No.7
I 8 Ignition Coil and Igniter No.8
I 9 Injector No.1
I 10 Injector No.2
I 11 Injector No.3
I 12 Injector No.4
I 13 Injector No.5
I 14 Injector No.6
I 15 Injector No.7
I 16 Injector No.8

J 1 Junction Connector
J 2 Junction Connector
J 3 Junction Connector
J 4 Junction Connector
J 5 Junction Connector
J 28 Junction Connector

K 1 Knock Sensor 1
K 2 Knock Sensor 2

M 1 Mass Air Flow Meter
M 2 Master Cylinder Pressure Sensor No.1
M 3 Master Cylinder Pressure Sensor No.2

N 1 Noise Filter No.1 (Ignition System)

O 1 O/D Direct Clutch Speed Sensor
O 2 Oil Pressure Sender

P 1 Park/Neutral Position SW
P20 Pedal Stroke Speed Sensor

R 1 Rear Washer Motor

S 1 Skid Control ECU with Actuator

S 2 Starter

S 3 Starter

S25 Short Connector (VSC)

S26 Short Connector (VSC)

T 1 Theft Deterrent Horn

T 4 Transfer Shift Actuator

T14 Throttle Control Motor and Position Sensor

V 1 Vehicle Speed Sensor (Combination Meter)

V 2 Vehicle Speed Sensor
(Electronically Controlled Transmission)

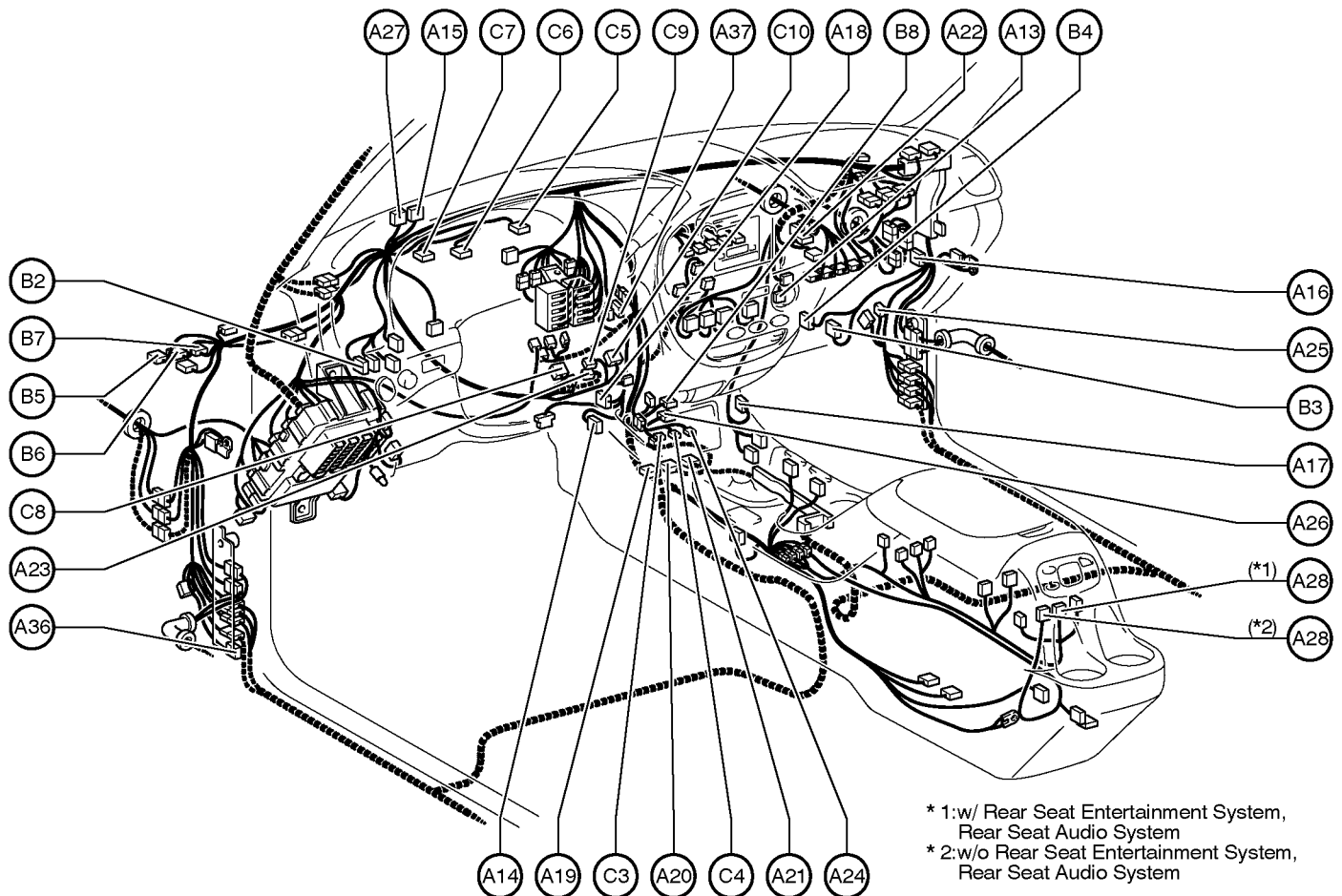
V 3 VSV (Canister Closed Valve)

V 4 VSV (EVAP)

W 1 Wireless Door Lock Control Buzzer

G ELECTRICAL WIRING ROUTING

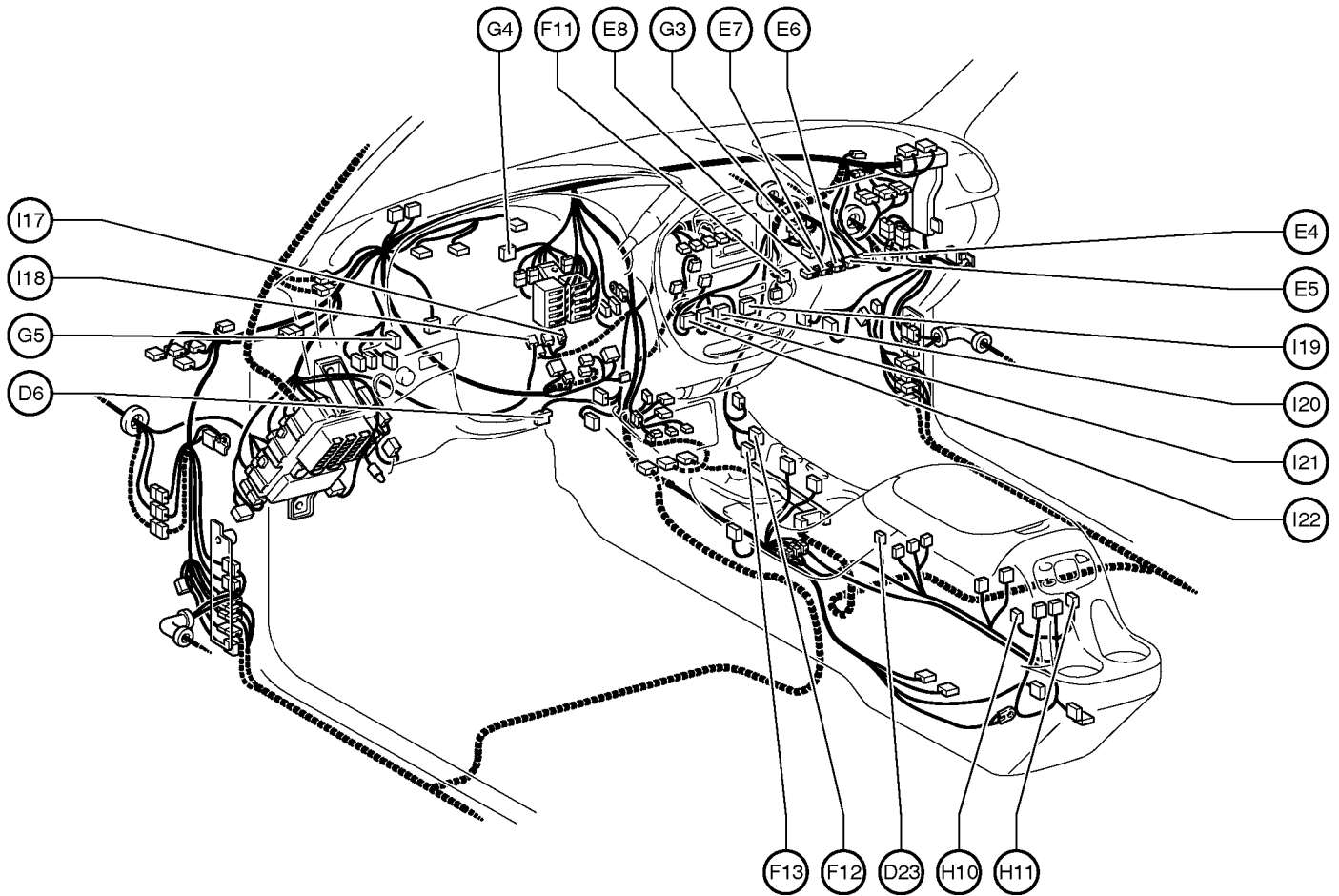
Position of Parts in Instrument Panel



A13 A/C Evaporator Temp. Sensor (Front)
 A14 A/C Room Temp. Sensor (Front)
 A15 A/C Solar Sensor
 A16 Air Inlet Control Servo Motor
 A17 Air Mix Control Servo Motor (Front)
 A18 Air Vent Mode Control Servo Motor (Front)
 A19 Airbag Sensor Assembly
 A20 Airbag Sensor Assembly
 A21 Airbag Sensor Assembly
 A22 Airbag Squib (Front Passenger Airbag Assembly)
 A23 Airbag Squib (Steering Wheel Pad)
 A24 Ashtray Illumination
 A25 Auto Antenna Motor
 A26 Auto Antenna Motor Relay
 A27 Automatic Light Control Sensor
 A28 A/C Control (Rear Heater Control Panel)
 A36 ACC Cut Relay
 A37 Accelerator Pedal Position Sensor

B 2 Back Door Power Window Control SW
 B 3 Blower Motor (Front)
 B 4 Blower Motor Control
 B 5 Body ECU
 B 6 Body ECU
 B 7 Body ECU
 B 8 Brake Inhibit Relay
 C 3 Cigarette Lighter
 C 4 Cigarette Lighter Illumination
 C 5 Combination Meter
 C 6 Combination Meter
 C 7 Combination Meter
 C 8 Combination SW
 C 9 Combination SW
 C10 Combination SW

Position of Parts in Instrument Panel



D 6 Data Link Connector 3
D23 DVD Player

E 4 Engine Control Module
E 5 Engine Control Module
E 6 Engine Control Module
E 7 Engine Control Module
E 8 Engine Control Module

F 11 4WD Control ECU
F 12 Front Power Outlet No.1
F 13 Front Power Outlet No.2

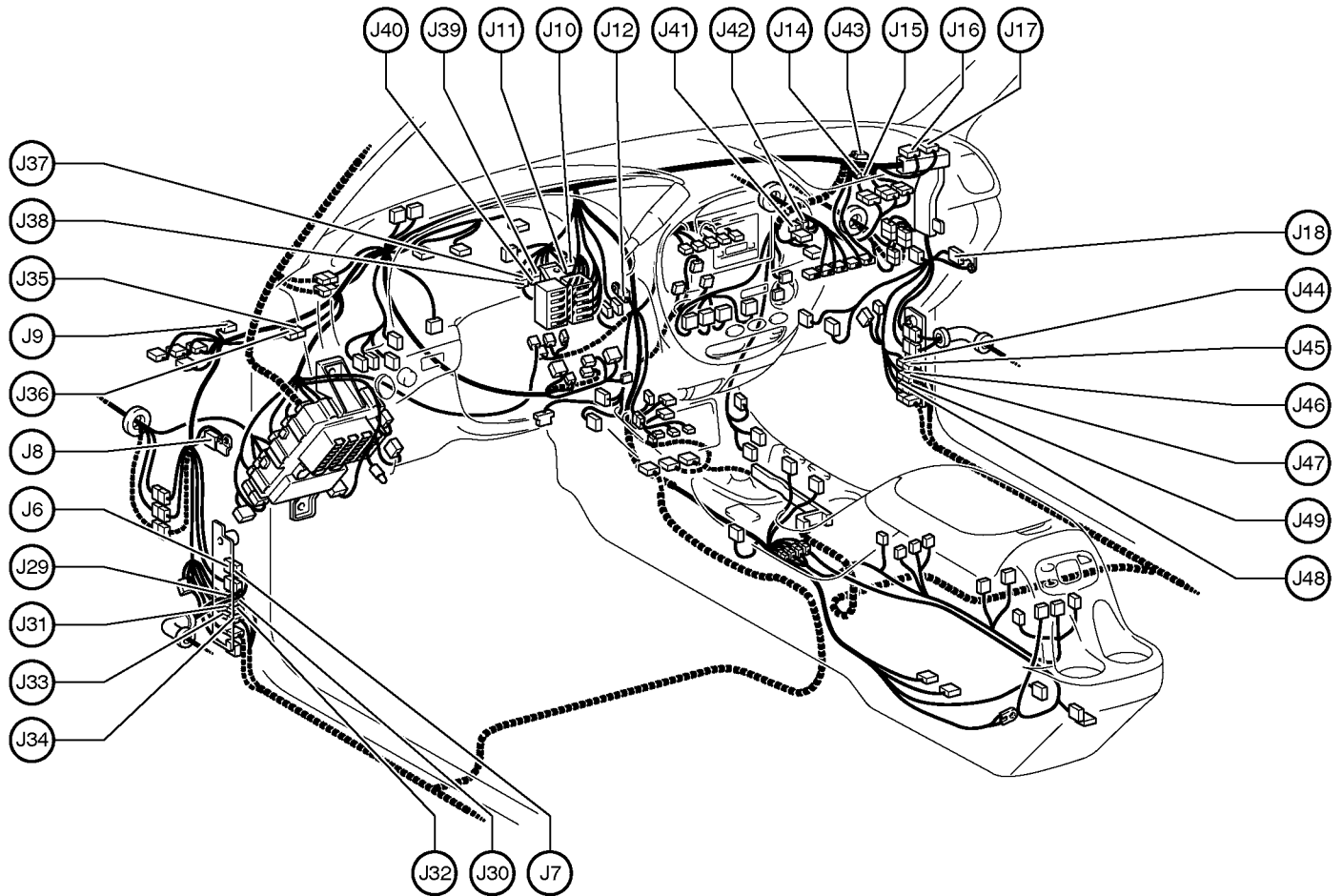
G 3 Glove Box Light
G 4 Glass Breakage Sensor ECU
G 5 Glass Breakage Sensor Microphone

H10 Headphone Terminal LH
H11 Headphone Terminal RH

I 17 Ignition Key Cylinder Light
I 18 Ignition SW
I 19 Integration Control and Panel
I 20 Integration Control and Panel
I 21 Integration Control and Panel
I 22 Integration Control and Panel

G ELECTRICAL WIRING ROUTING

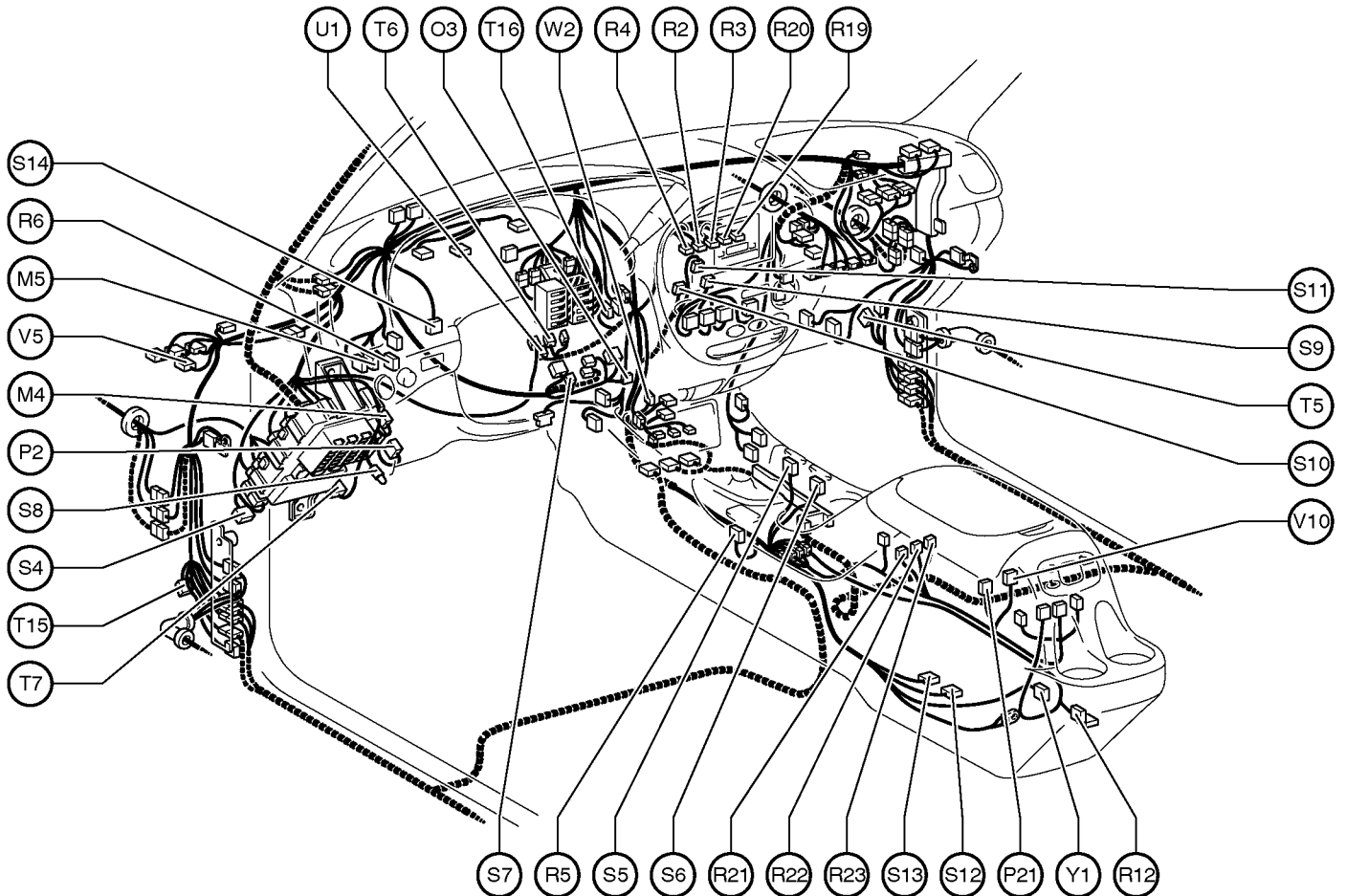
Position of Parts in Instrument Panel



J 6 Junction Connector
 J 7 Junction Connector
 J 8 Junction Connector
 J 9 Junction Connector
 J 10 Junction Connector
 J 11 Junction Connector
 J 12 Junction Connector
 J 14 Junction Connector
 J 15 Junction Connector
 J 16 Junction Connector
 J 17 Junction Connector
 J 18 Junction Connector
 J 29 Junction Connector
 J 30 Junction Connector
 J 31 Junction Connector
 J 32 Junction Connector
 J 33 Junction Connector

J 34 Junction Connector
 J 35 Junction Connector
 J 36 Junction Connector
 J 37 Junction Connector
 J 38 Junction Connector
 J 39 Junction Connector
 J 40 Junction Connector
 J 41 Junction Connector
 J 42 Junction Connector
 J 43 Junction Connector
 J 44 Junction Connector
 J 45 Junction Connector
 J 46 Junction Connector
 J 47 Junction Connector
 J 48 Junction Connector
 J 49 Junction Connector

Position of Parts in Instrument Panel



M 4 Mirror Heater Relay
M 5 Main SW

O 3 O/D Main SW

P 2 Parking Brake SW
P21 Power Outlet (115V)

R 2 Radio and Player
R 3 Radio and Player
R 4 Radio and Player
R 5 Remote Control Mirror SW
R 6 Rheostat
R12 Rear Power Outlet No.1
R19 Radio and Player
R20 Radio and Player
R21 Rear Seat Entertainment ECU
R22 Rear Seat Entertainment ECU
R23 Rear Seat Entertainment ECU

S 4 Seat Heater Relay
S 5 Seat Heater SW Front LH
S 6 Seat Heater SW Front RH
S 7 Steering Angle Sensor
S 8 Step Light
S 9 Stereo Component Amplifier (Front)
S10 Stereo Component Amplifier (Front)
S11 Stereo Component Amplifier (Front)
S12 Stereo Component Amplifier (Rear)
S13 Stereo Component Amplifier (Rear)
S14 Stop Light SW

T 5 Translate ECU
T 6 Transponder Key Amplifier
T 7 Turn Signal Flasher Relay
T15 Towing Brake Controller
T16 Transponder Key Computer

U 1 Unlock Warning SW

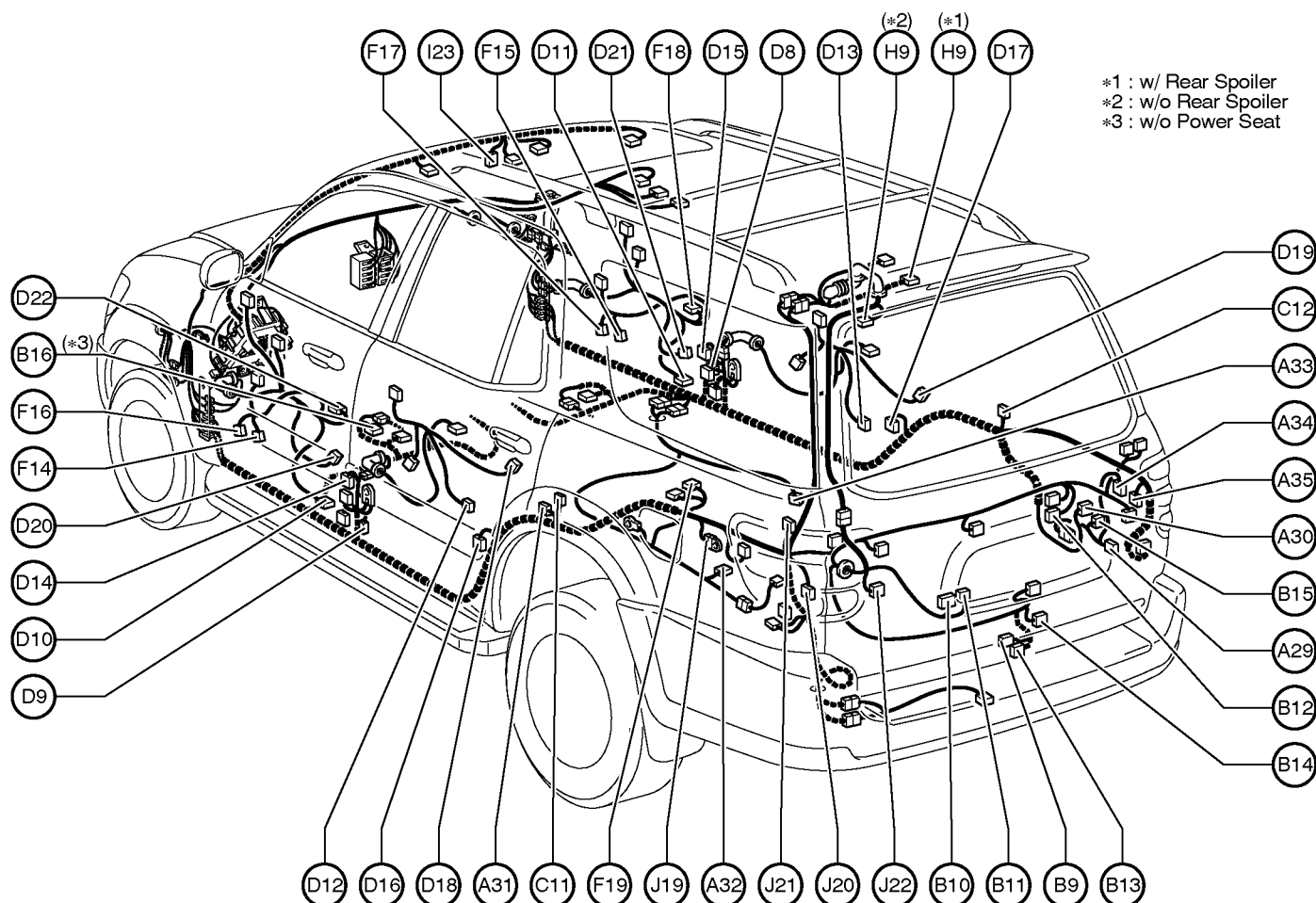
V 5 VSC Warning Buzzer
V10 Video Terminal

W 2 Wireless Door Control Receiver

Y 1 Yaw Rate Sensor

G ELECTRICAL WIRING ROUTING

Position of Parts in Body



*1 : w/ Rear Spoiler
 *2 : w/o Rear Spoiler
 *3 : w/o Power Seat

A29 A/C Evaporator Temp. Sensor (Rear)
 A30 A/C Power Transistor
 A31 A/C Room Temp. Sensor (Rear)
 A32 ABS Speed Sensor Rear LH
 A33 ABS Speed Sensor Rear RH
 A34 A/C Water Valve (Rear)
 A35 Air Vent Mode Control Servo Motor (Rear)

B 9 Back Door Courtesy SW
 B10 Back Door ECU
 B11 Back Door ECU
 B12 Back Door Key Lock and Unlock SW
 B13 Back Door Lock Motor and Back Door Unlock Detection SW
 B14 Back Door Power Window Motor
 B15 Blower Motor (Rear)
 B16 Buckle SW LH

C11 Curtain Airbag Squib LH
 C12 Curtain Airbag Squib RH

D 8 Diode (Interior Light No.1)
 D 9 Diode (Interior Light No.2)
 D10 Door Courtesy Light Front LH
 D11 Door Courtesy Light Front RH
 D12 Door Courtesy Light Rear LH
 D13 Door Courtesy Light Rear RH
 D14 Door Courtesy SW Front LH

D15 Door Courtesy SW Front RH
 D16 Door Courtesy SW Rear LH
 D17 Door Courtesy SW Rear RH
 D18 Door Lock Motor and Door Unlock Detection SW Rear LH
 D19 Door Lock Motor and Door Unlock Detection SW Rear RH
 D20 Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front LH
 D21 Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front RH
 D22 Driver Door ECU

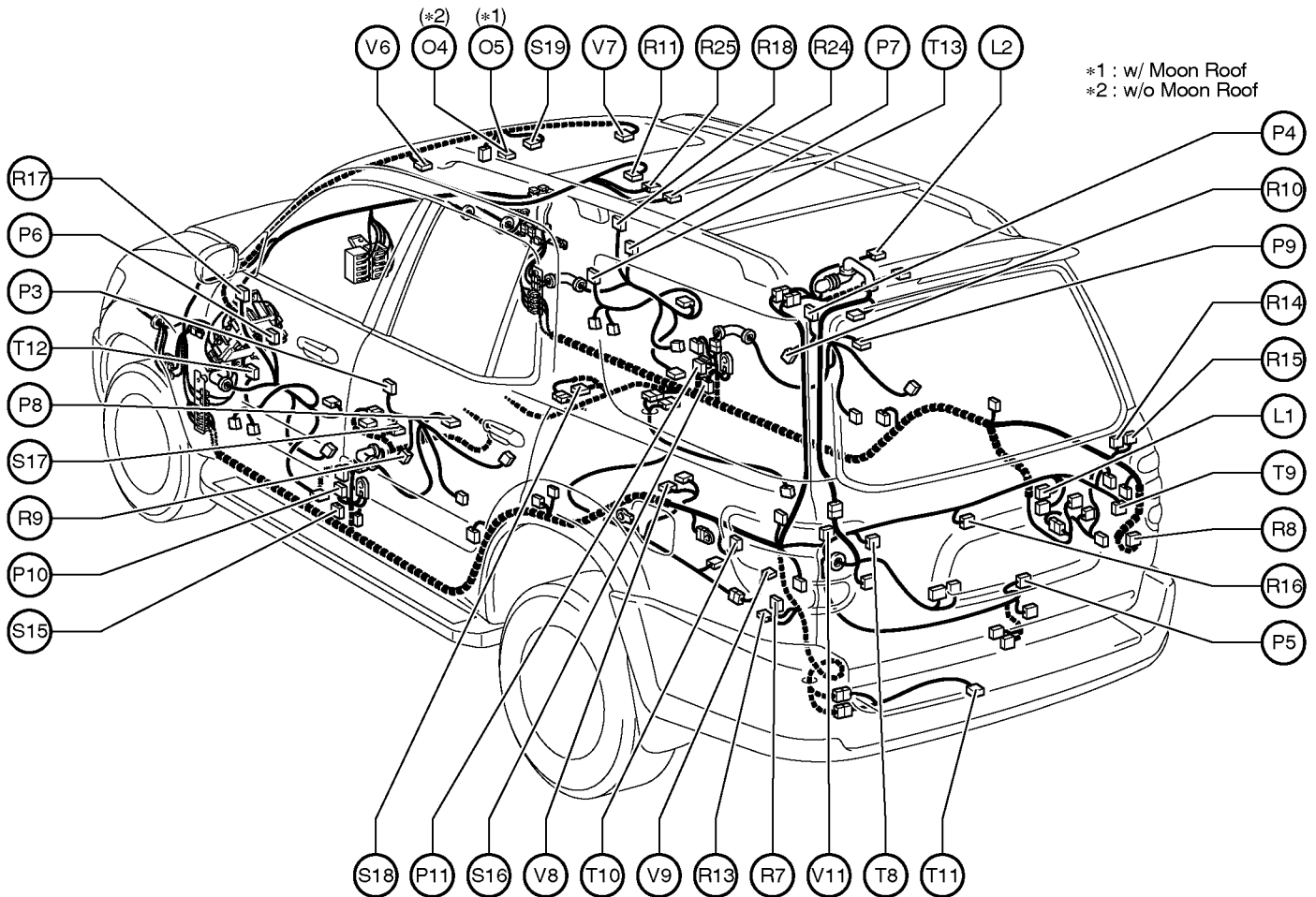
F14 Front Door Speaker and Woofer LH
 F15 Front Door Speaker and Woofer RH
 F16 Front Door Speaker LH
 F17 Front Door Speaker RH
 F18 Front Passenger Door ECU
 F19 Fuel Pump and Sender

H 9 High Mounted Stop Light

I 23 Inner Mirror

J19 Junction Connector
 J20 Junction Connector
 J21 Junction Connector
 J22 Junction Connector

Position of Parts in Body



*1 : w/ Moon Roof
*2 : w/o Moon Roof

L 1 License Plate Light
L 2 Luggage Room Light

O 4 Overhead Module
O 5 Overhead Module

P 3 Power Window Control SW Rear LH
P 4 Power Window Control SW Rear RH
P 5 Power Window Limit SW (Back Door)
P 6 Power Window Motor Front LH
P 7 Power Window Motor Front RH
P 8 Power Window Motor Rear LH
P 9 Power Window Motor Rear RH
P10 Pretensioner LH
P11 Pretensioner RH

R 7 Rear Combination Light LH
R 8 Rear Combination Light RH
R 9 Rear Door Speaker LH
R10 Rear Door Speaker RH
R11 Rear Interior Light
R13 Rear Power Outlet No.2
R14 Rear Window Defogger
R15 Rear Window Defogger

R16 Rear Wiper Motor
R17 Remote Control Mirror LH
R18 Remote Control Mirror RH
R24 Rear Seat Audio Controller
R25 Rear Seat Entertainment Display

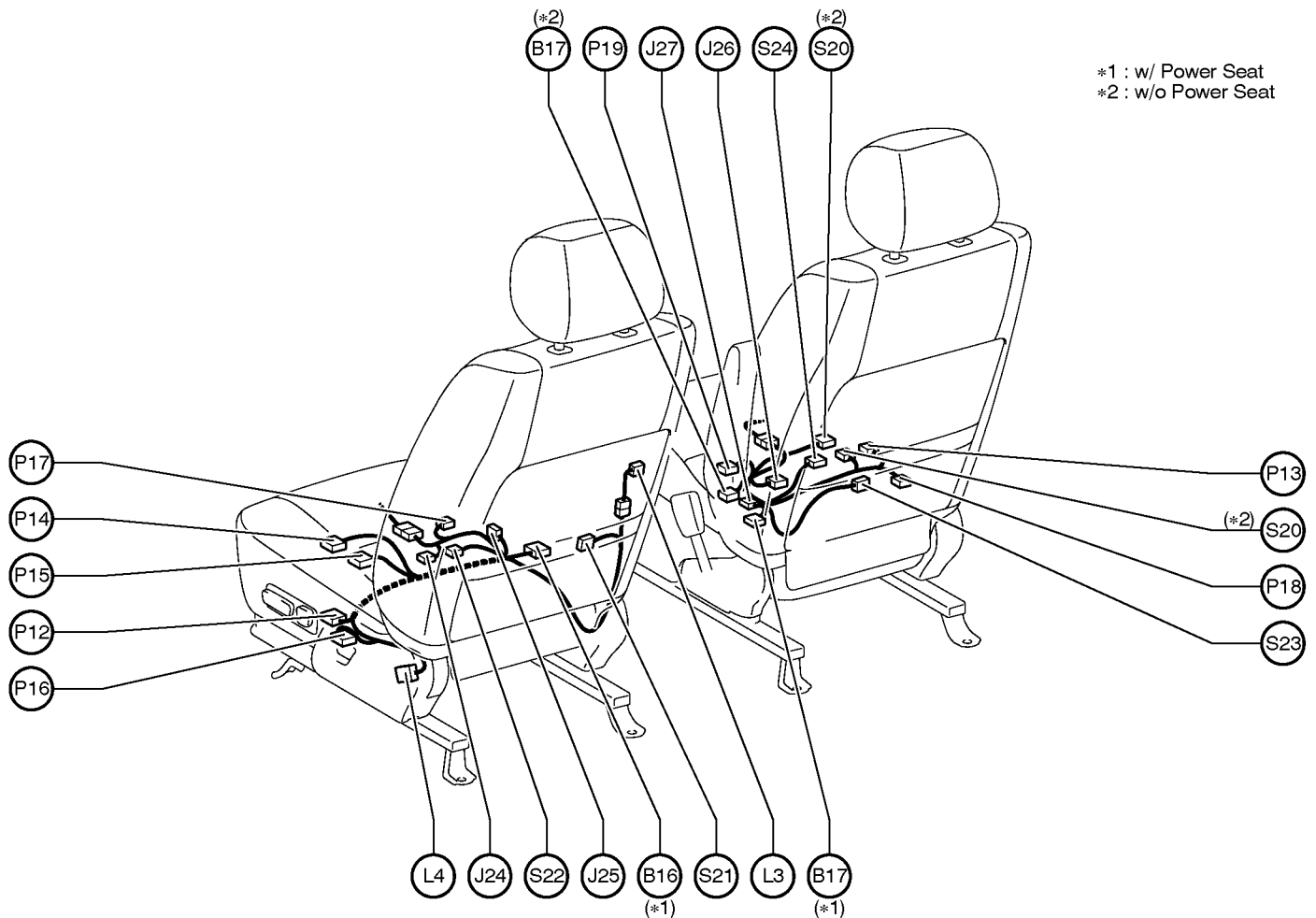
S15 Side Airbag Sensor LH
S16 Side Airbag Sensor RH
S17 Side Airbag Squib LH
S18 Side Airbag Squib RH
S19 Sliding Roof Control ECU

T 8 Taillight LH
T 9 Taillight RH
T10 Towing Converter Relay
T11 Trailer Socket
T12 Tweeter LH
T13 Tweeter RH

V 6 Vanity Light LH
V 7 Vanity Light RH
V 8 Vapor Pressure Sensor
V 9 VSV (Pressure Switching Valve)
V11 Voltage Inverter

G ELECTRICAL WIRING ROUTING

Position of Parts in Seat



B16 Buckle SW LH
B17 Buckle SW RH

J 24 Junction Connector
J 25 Junction Connector
J 26 Junction Connector
J 27 Junction Connector

L 3 Lumbar Support Control Motor (Driver's Seat)
L 4 Lumbar Support Control SW (Driver's Seat)

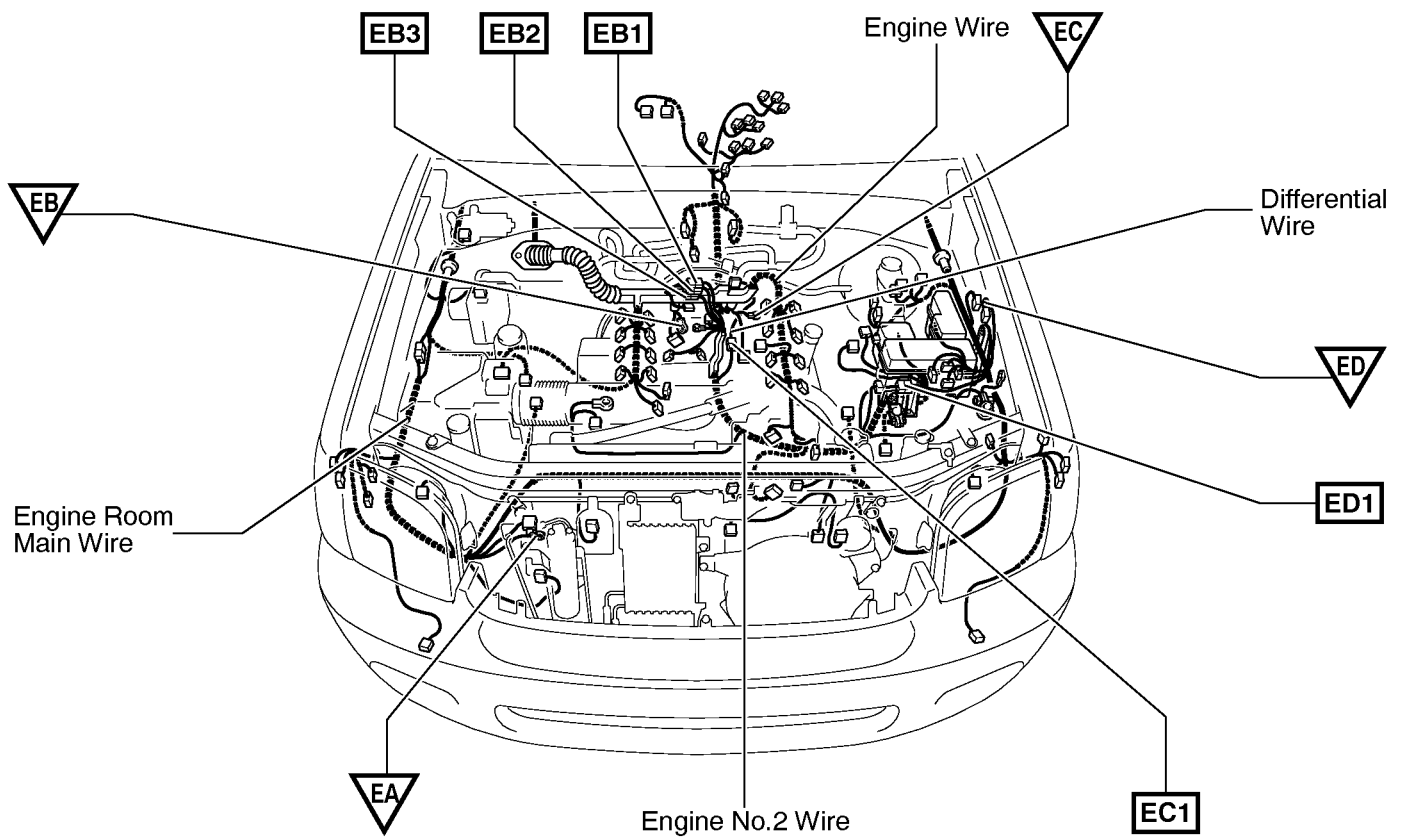
P12 Power Seat Control SW (Driver's Seat)
P13 Power Seat Control SW (Front Passenger's Seat)
P14 Power Seat Motor (Driver's Seat Front Vertical Control)
P15 Power Seat Motor (Driver's Seat Rear Vertical Control)
P16 Power Seat Motor (Driver's Seat Reclining Control)
P17 Power Seat Motor (Driver's Seat Slide Control)
P18 Power Seat Motor
(Front Passenger's Seat Reclining Control)
P19 Power Seat Motor
(Front Passenger's Seat Slide Control)

S20 Seat Belt Warning Occupant Detection Sensor
S21 Seat Heater (Driver's Seat Back)
S22 Seat Heater (Driver's Seat)
S23 Seat Heater (Front Passenger's Seat Back)
S24 Seat Heater (Front Passenger's Seat)

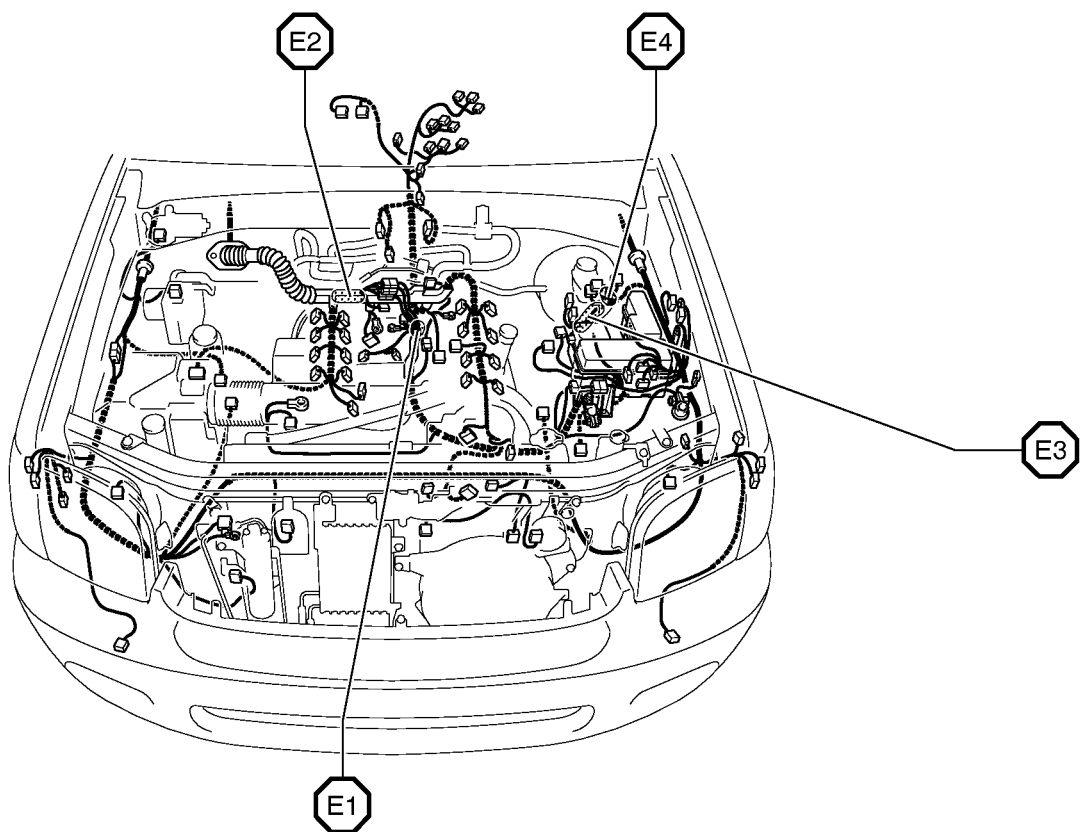
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

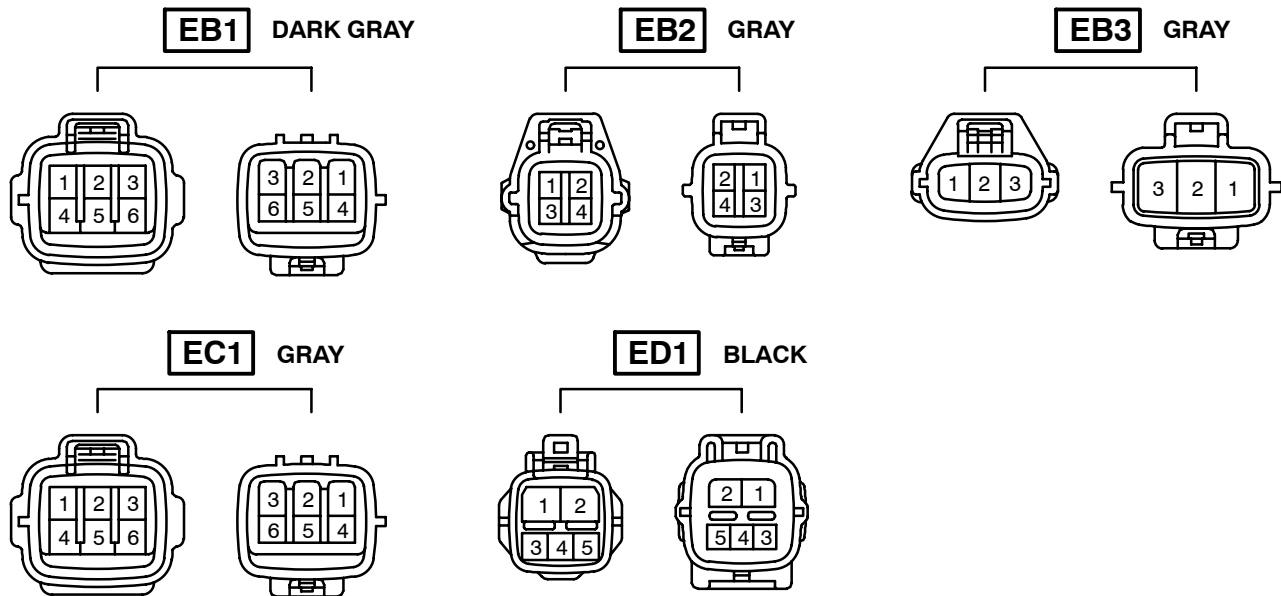
▽ : Location of Ground Points



○ : Location of Splice Points



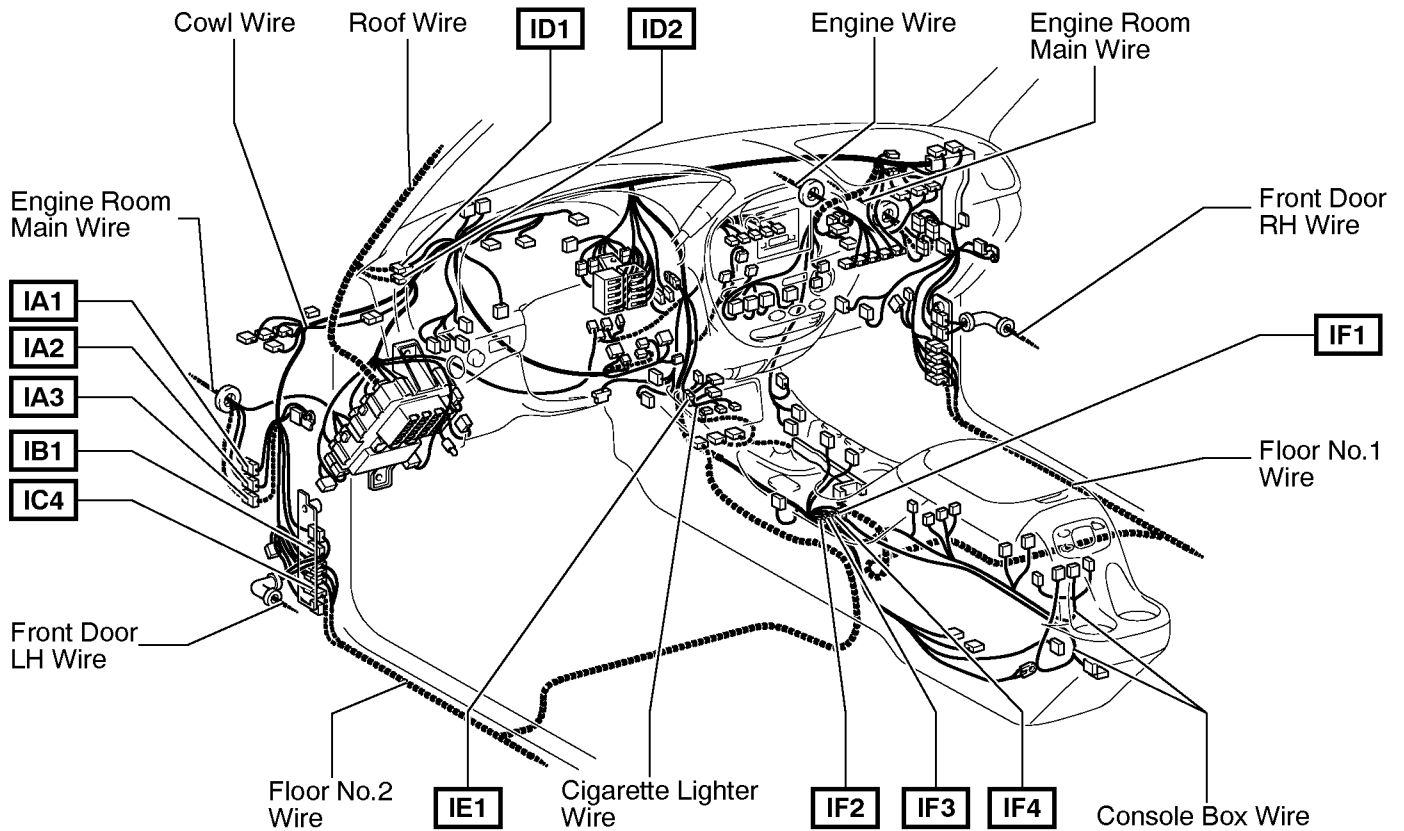
Connector Joining Wire Harness and Wire Harness



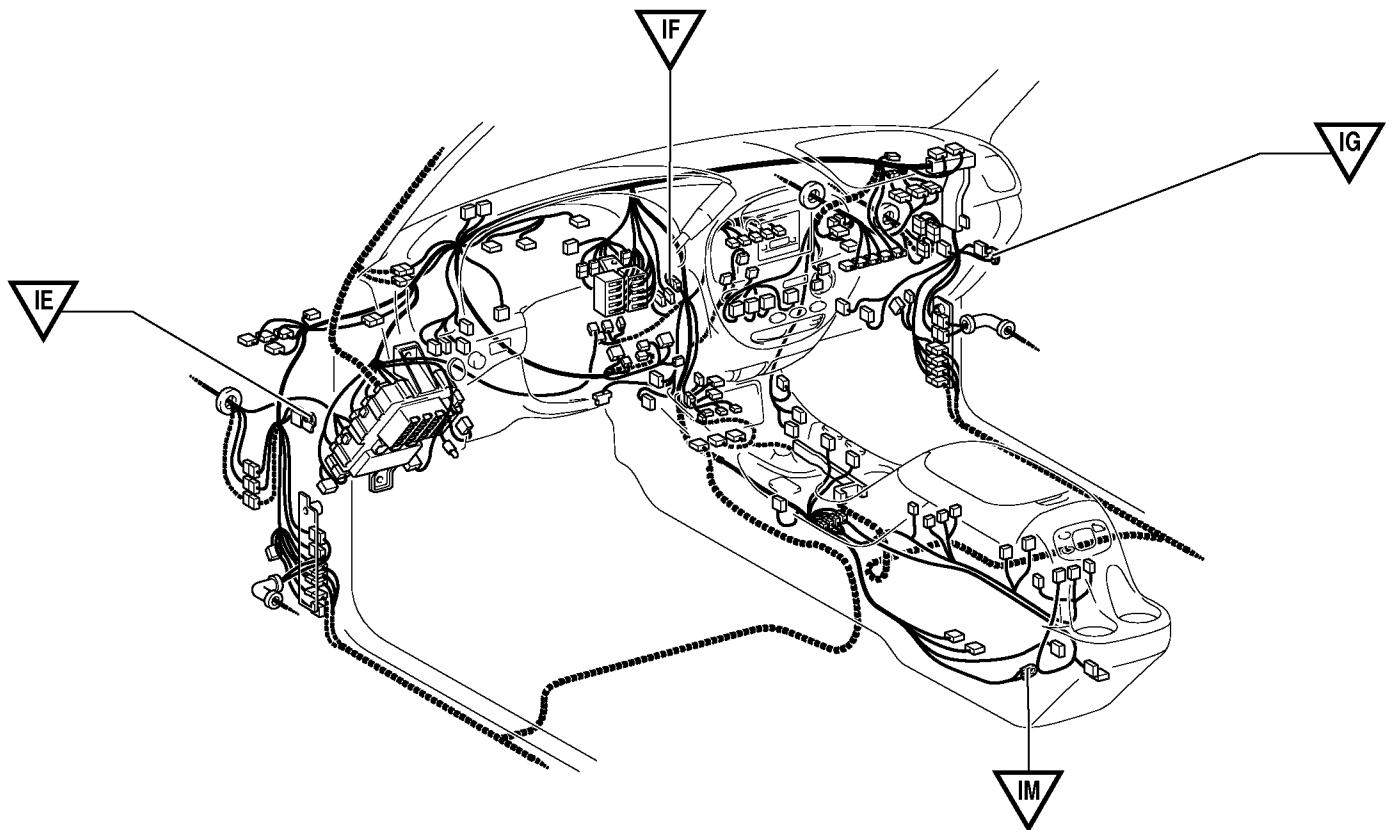
Code	Joining Wire Harness and Wire Harness (Connector Location)
EB1	Engine No.2 Wire and Engine Wire (Near the Starter)
EB2	
EB3	
EC1	Engine No.2 Wire and Differential Wire (Near the Transmission)
ED1	Engine No.2 Wire and Engine Room Main Wire (Under the Engine Room R/B)

G ELECTRICAL WIRING ROUTING

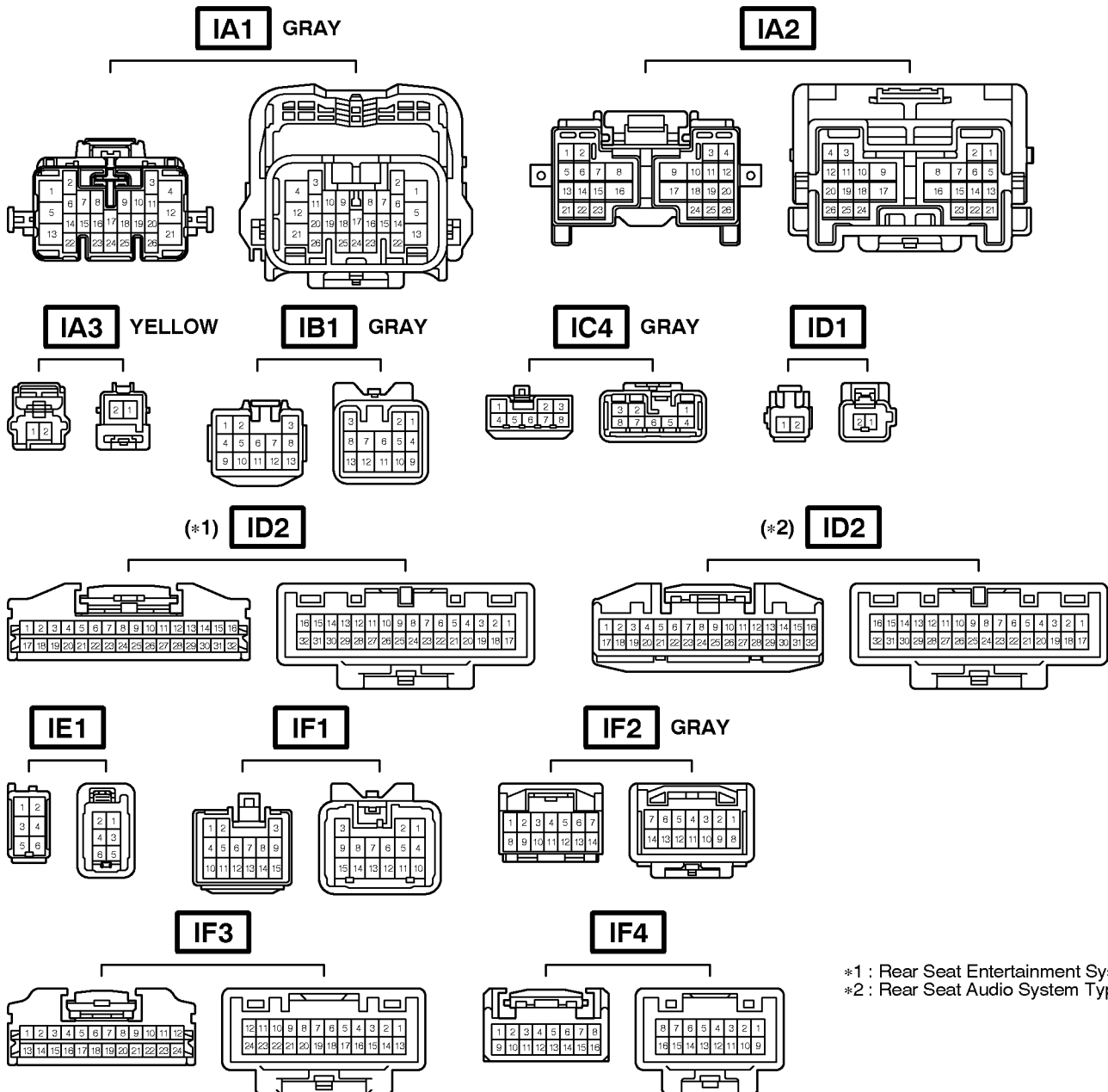
□ : Location of Connector Joining Wire Harness and Wire Harness



▽ : Location of Ground Points



Connector Joining Wire Harness and Wire Harness

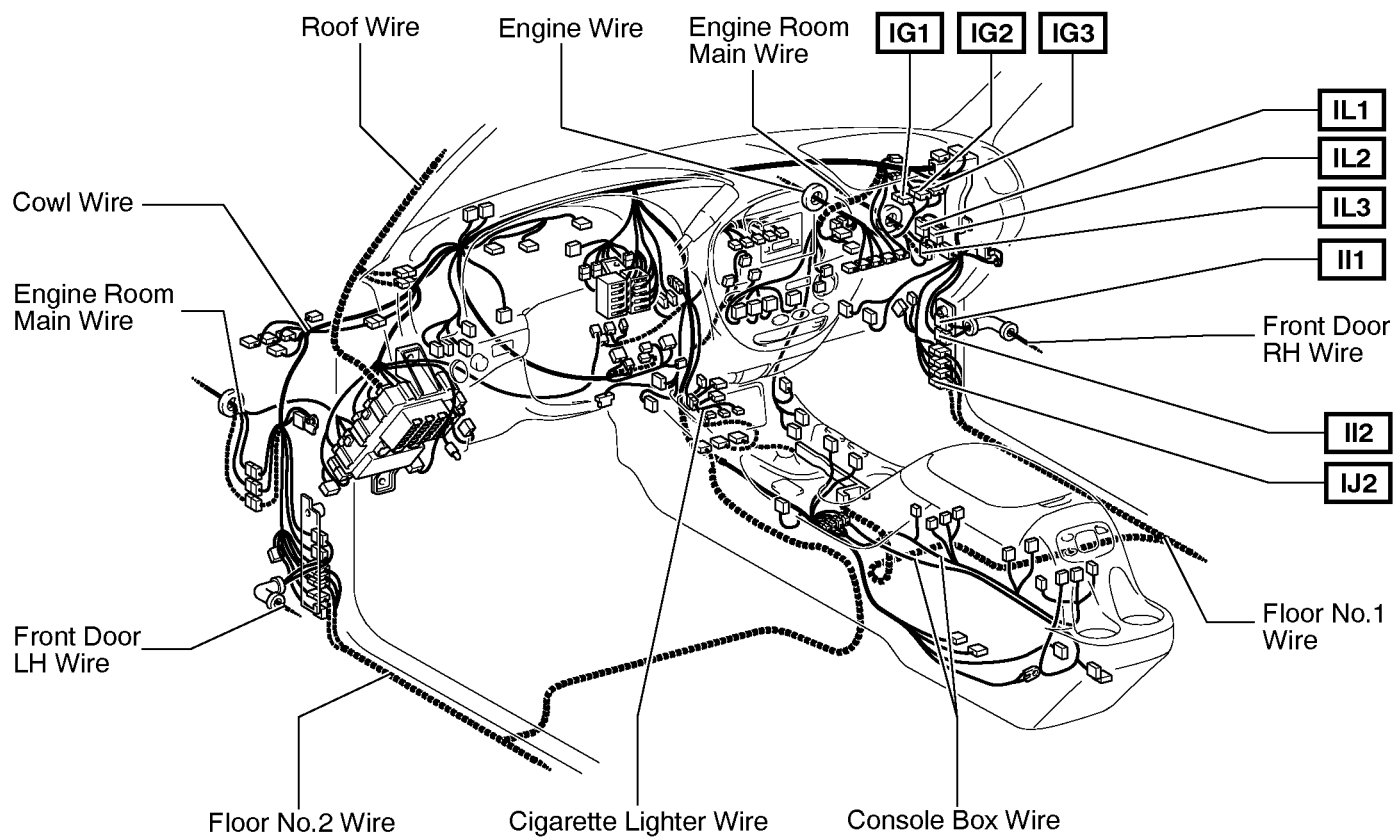


*1 : Rear Seat Entertainment System Type
 *2 : Rear Seat Audio System Type

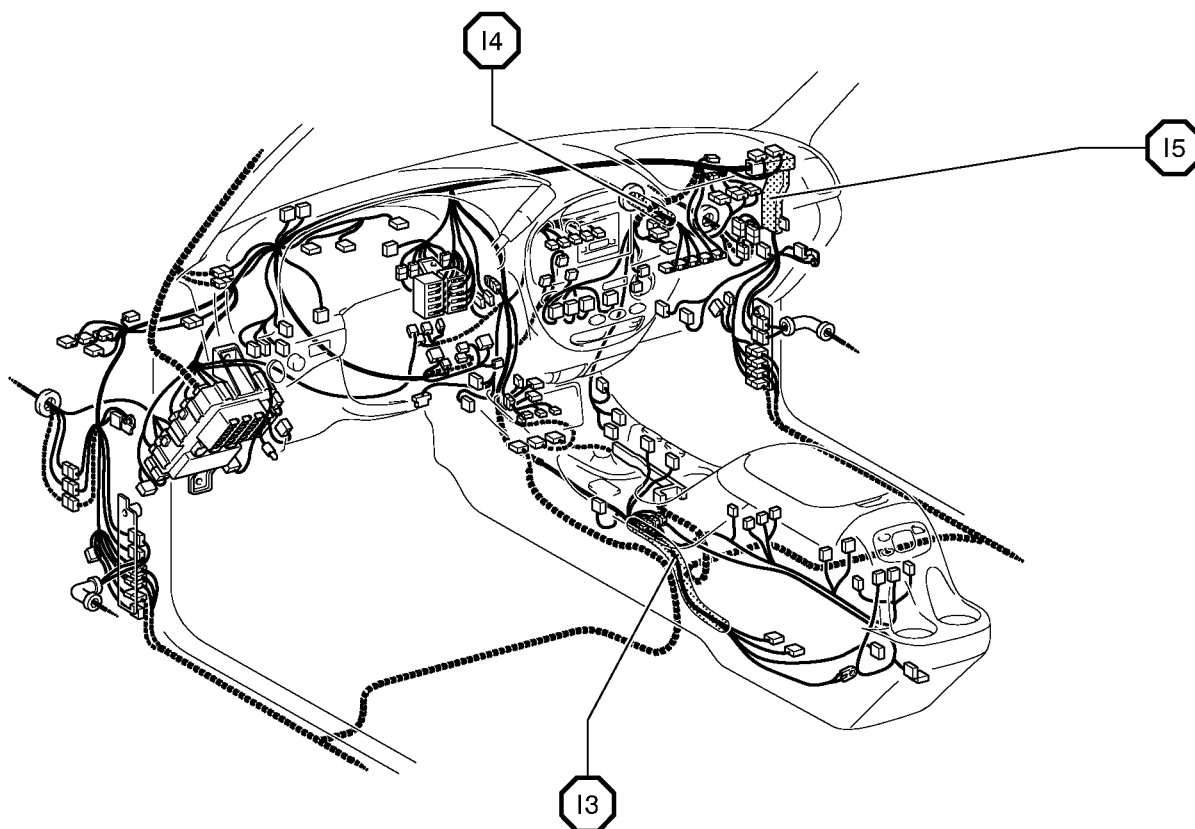
Code	Joining Wire Harness and Wire Harness (Connector Location)
IA1	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2	
IA3	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IB1	
IC4	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
ID1	Cowl Wire and Roof Wire (Left Side of Instrument Panel)
ID2	
IE1	Cigarette Lighter Wire and Cowl Wire (Instrument Panel Brace LH)
IF1	Console Box Wire and Cowl Wire (Rear Console)
IF2	
IF3	
IF4	

G ELECTRICAL WIRING ROUTING

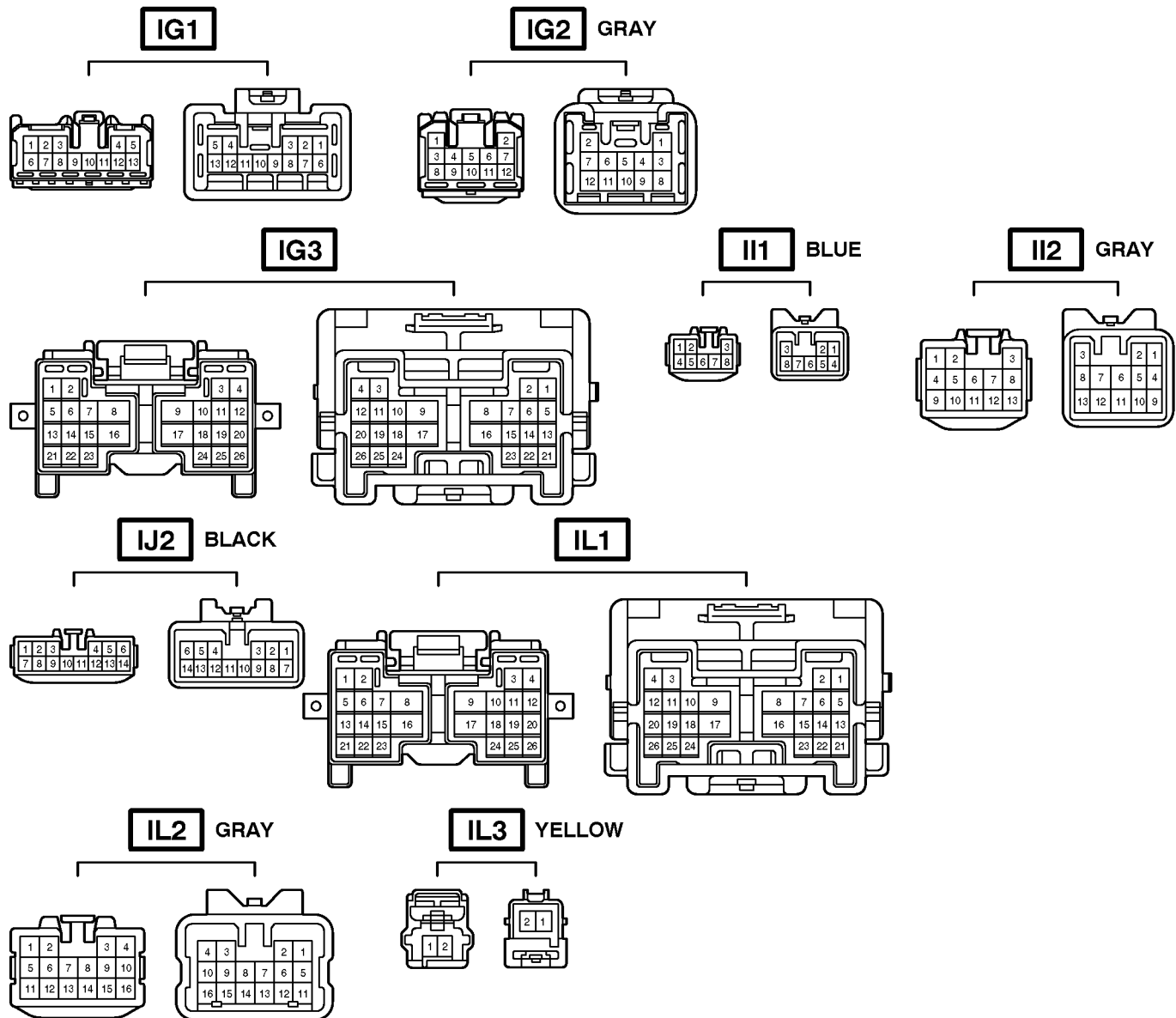
□ : Location of Connector Joining Wire Harness and Wire Harness



○ : Location of Splice Points



Connector Joining Wire Harness and Wire Harness

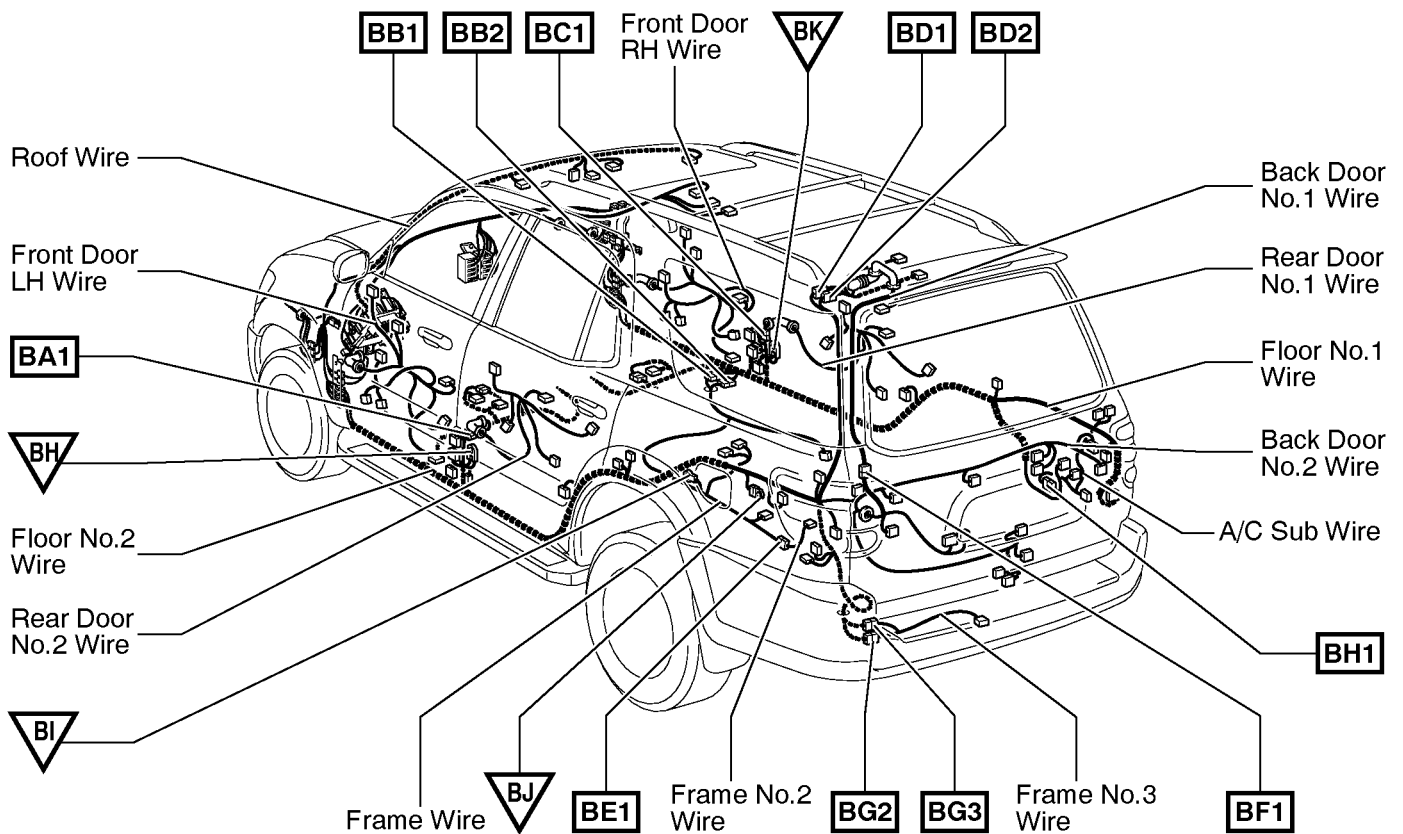


Code	Joining Wire Harness and Wire Harness (Connector Location)
IG1	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG2	
IG3	
II1	Front Door RH Wire and Cowl Wire (Right Kick Panel)
II2	
IJ2	Floor No.1 Wire and Cowl Wire (Right Kick Panel)
IL1	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
IL2	
IL3	

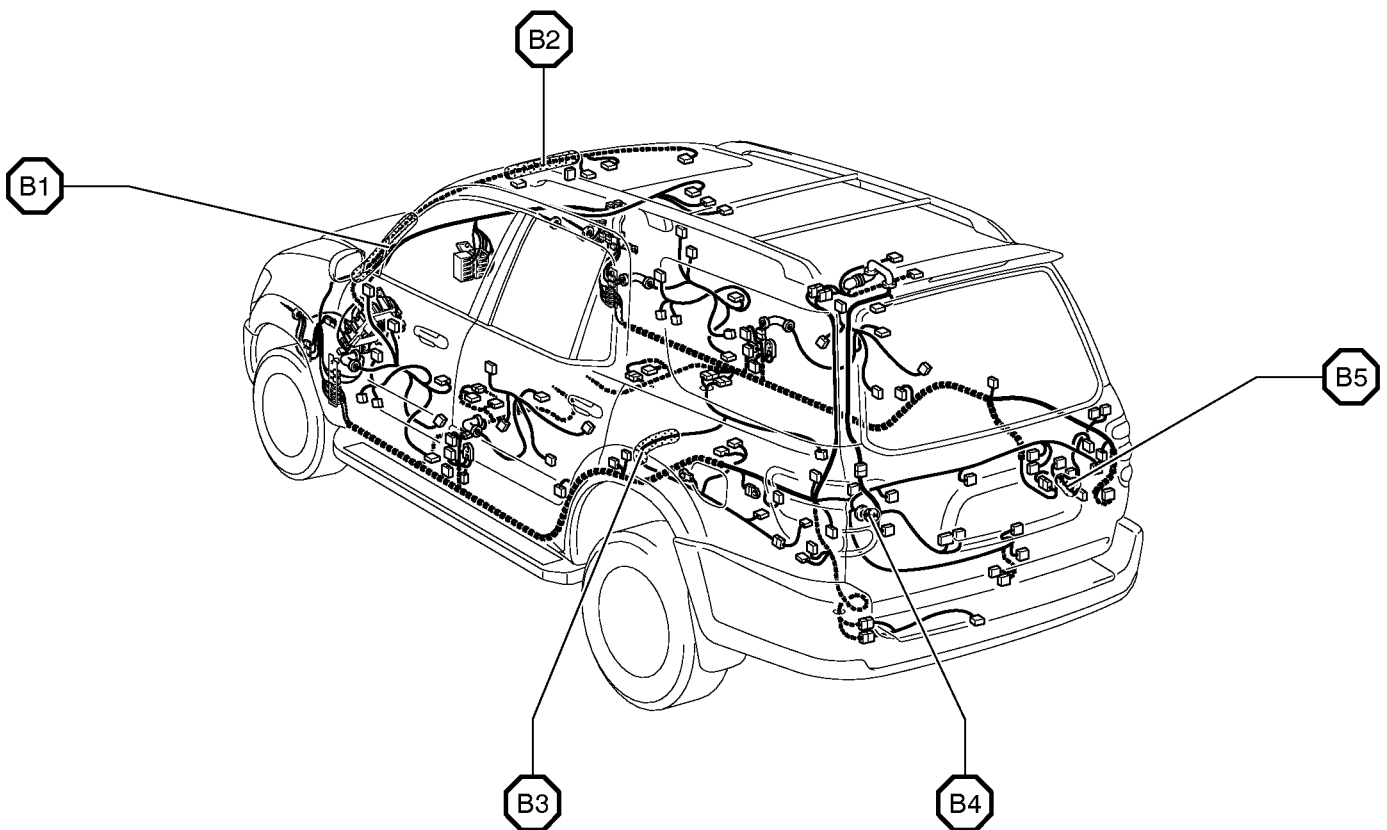
G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

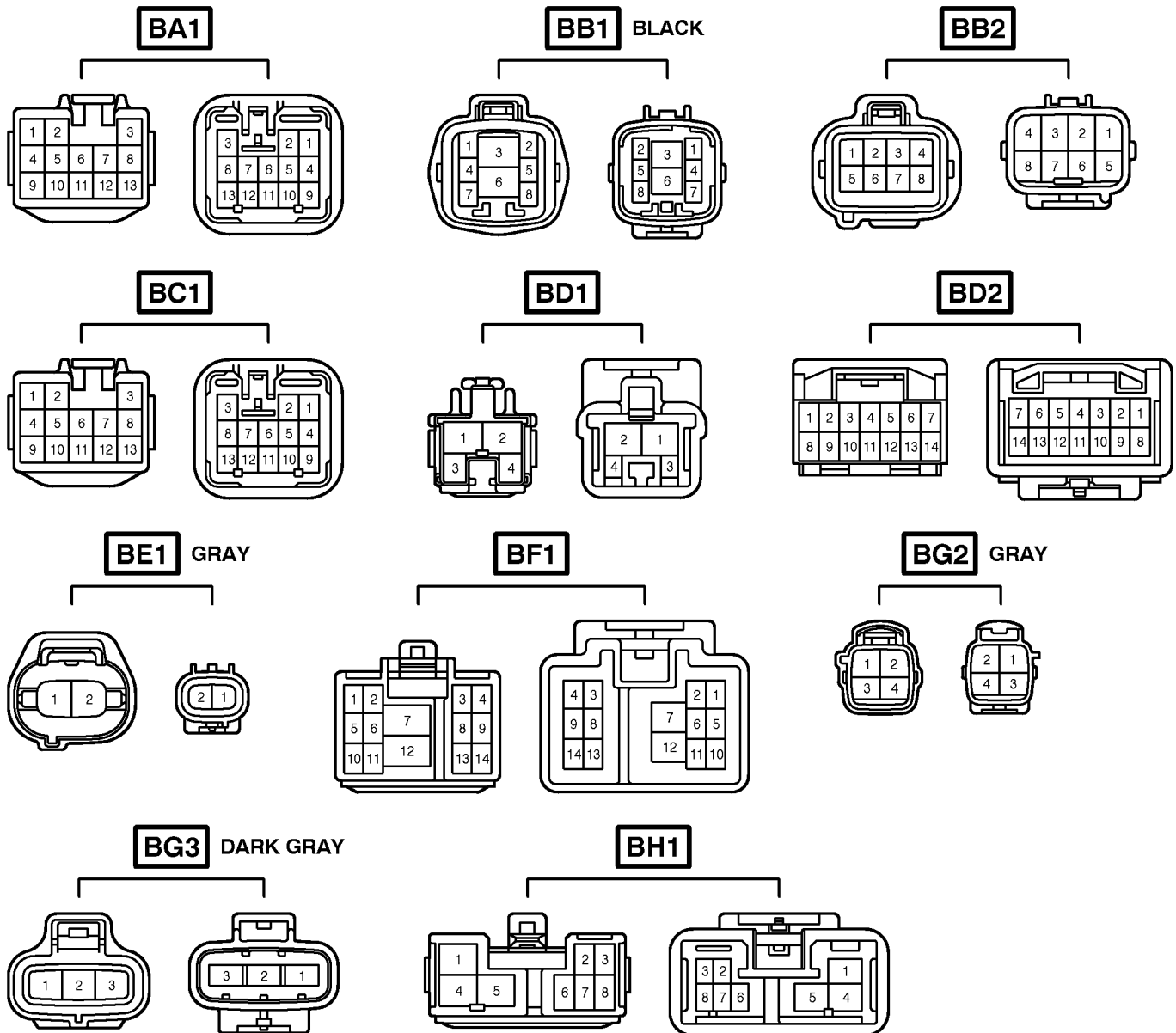
▽ : Location of Ground Points



○ : Location of Splice Points



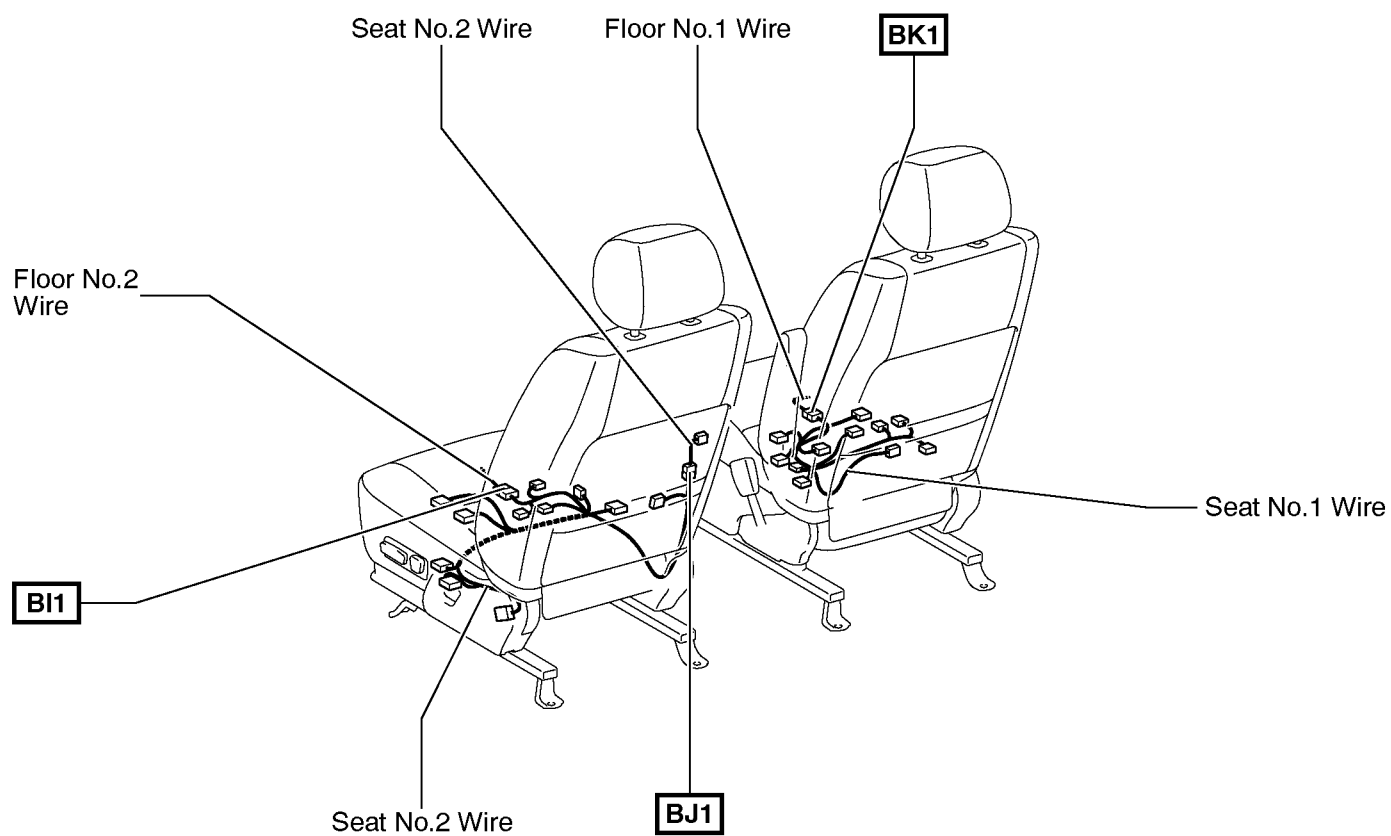
Connector Joining Wire Harness and Wire Harness



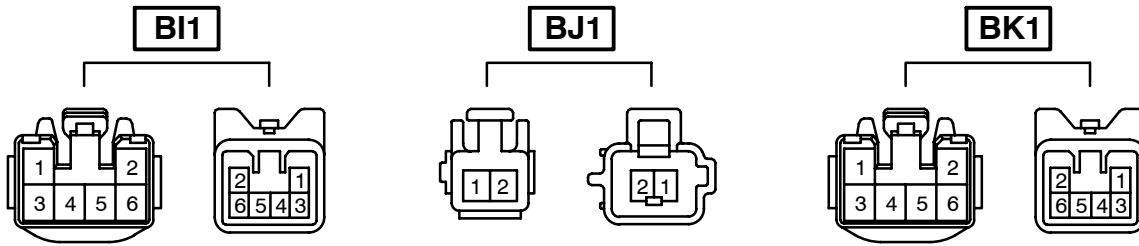
Code	Joining Wire Harness and Wire Harness (Connector Location)
BA1	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BB1	Frame Wire and Floor No.1 Wire (Under the Front Passenger's Seat)
BB2	
BC1	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2	
BE1	Frame No.2 Wire and Frame Wire (Left Side of Room Partition Crossmember)
BF1	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)
BG2	Floor No.2 Wire and Frame No.3 Wire (Left Side of Rear Floor Crossmember)
BG3	
BH1	Floor No.1 Wire and A/C Sub Wire (Right Side of Rear Quarter Panel)

G ELECTRICAL WIRING ROUTING

□ : Location of Connector Joining Wire Harness and Wire Harness

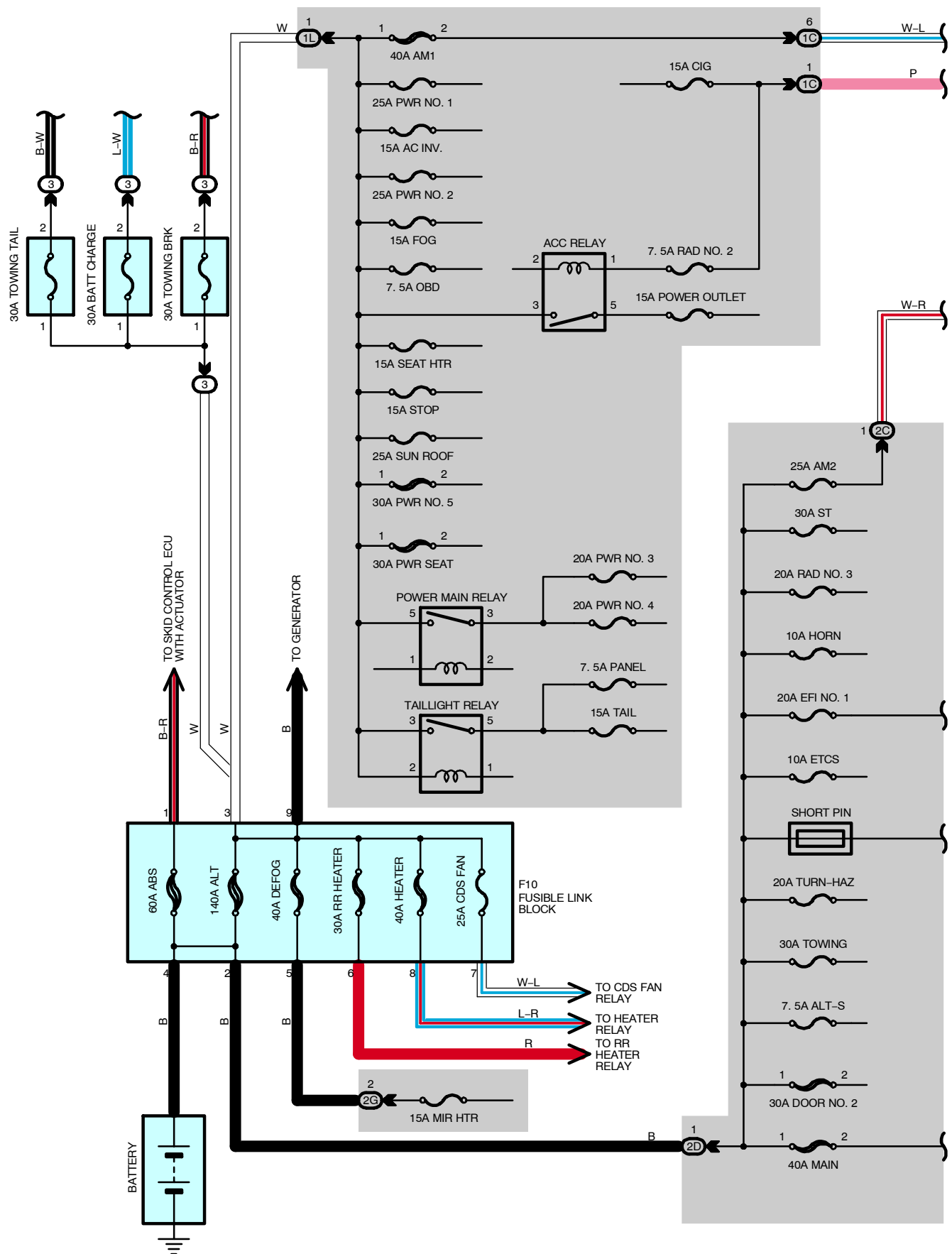


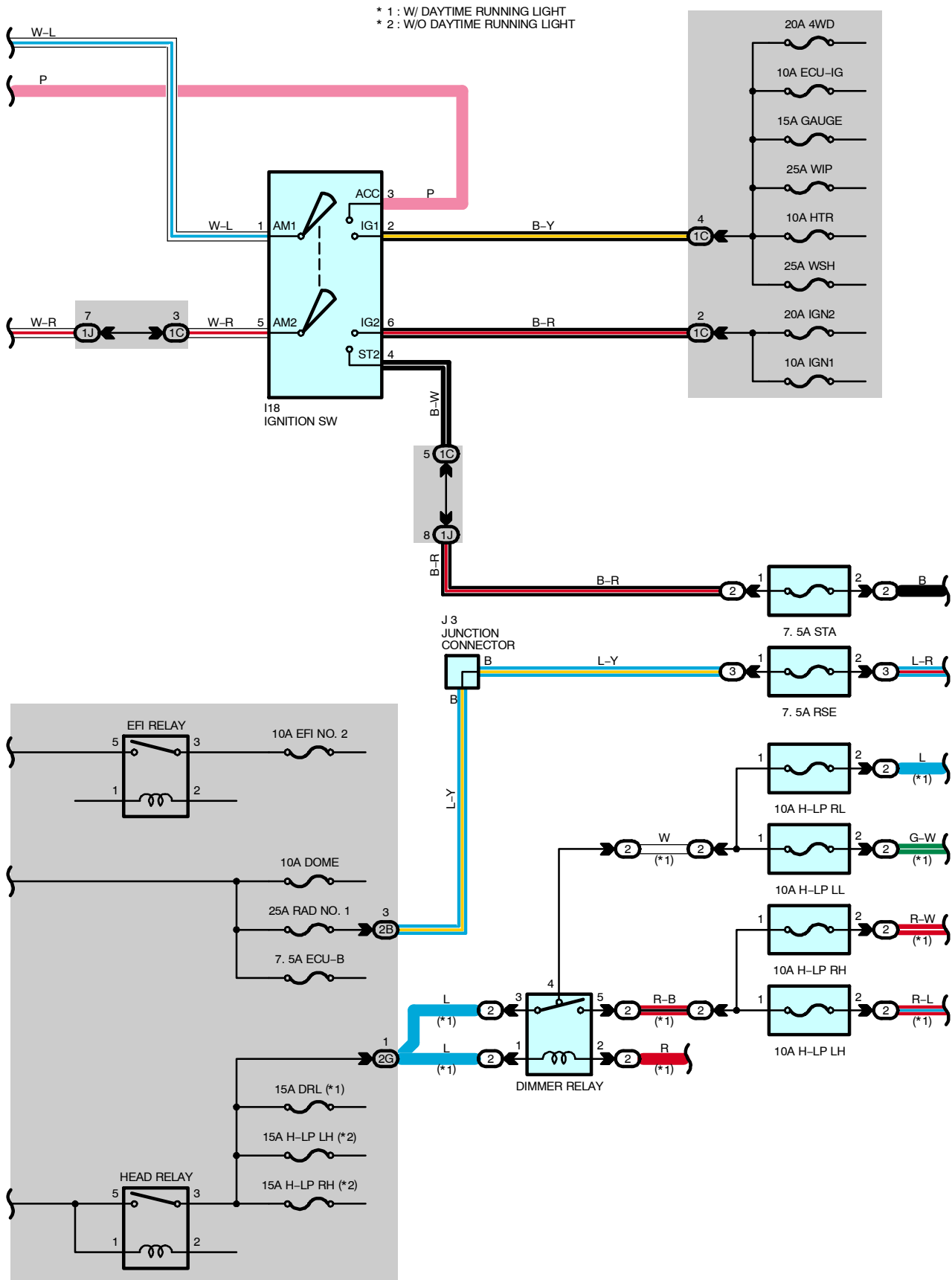
Connector Joining Wire Harness and Wire Harness



Code	Joining Wire Harness and Wire Harness (Connector Location)
BI1	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BJ1	Seat No.2 Wire and Seat No.2 Wire (Driver's Seat Back)
BK1	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

POWER SOURCE





POWER SOURCE

SERVICE HINTS

HEAD RELAY

- 5-3 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position
- : Closed with the engine running and the parking brake pedal released (w/ daytime running light)

I18 IGNITION SW

- 1-3 : Closed with the ignition key at **ACC** or **ON** position
- 1-2 : Closed with the ignition key at **ON** or **ST** position
- 5-6 : Closed with the ignition key at **ON** or **ST** position
- 5-4 : Closed with the ignition key at **ST** position

DIMMER RELAY (w/ DAYTIME RUNNING LIGHT)

- 3-5 : Closed with the HEAD relay on and dimmer SW at **HIGH** or **FLASH** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
F10	36	I18	39	J3	37

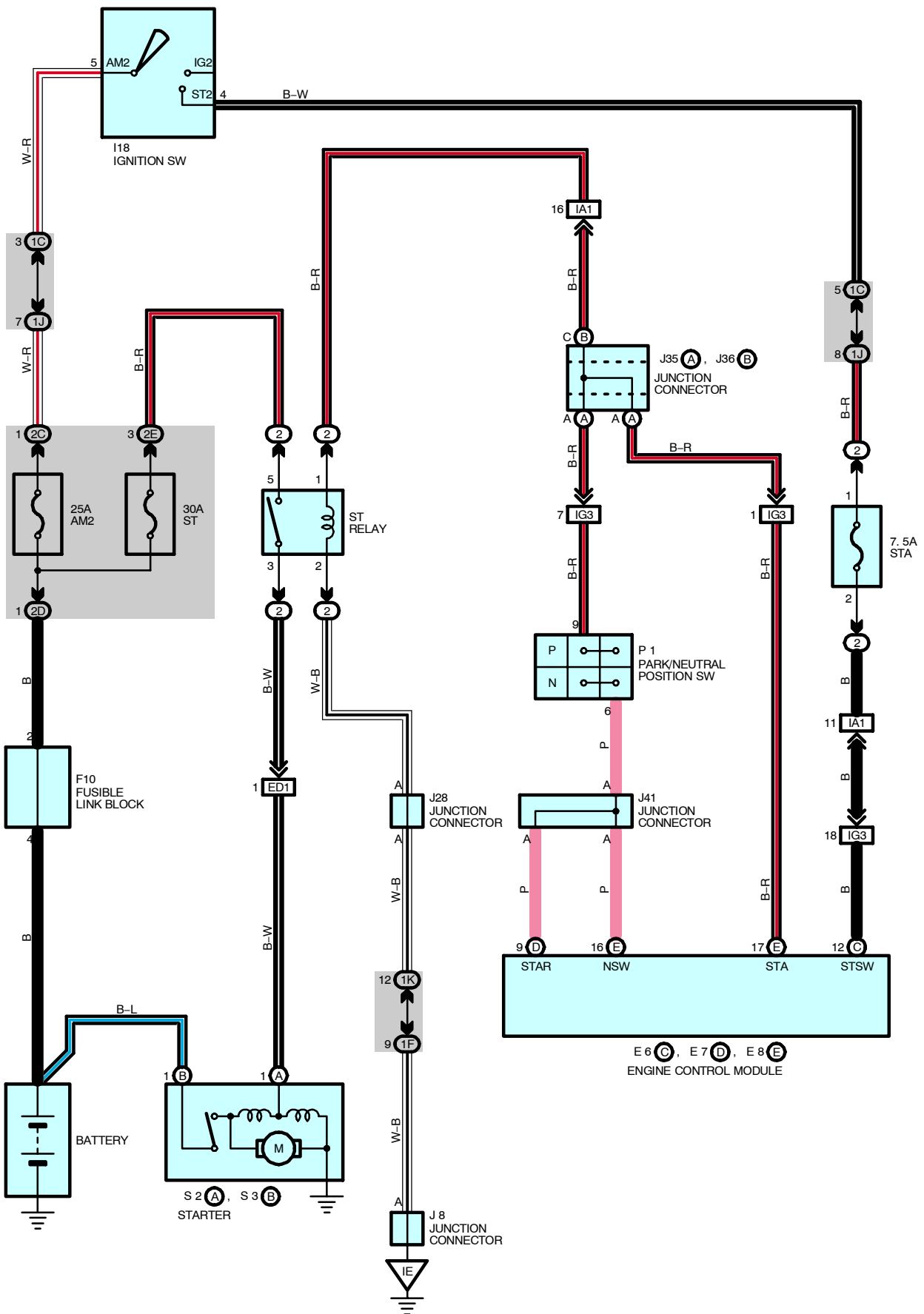
○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
2D		
2G		

STARTING



SERVICE HINTS

S2 (A), S3 (B) STARTER

Points closed with the Park/Neutral position SW at **P** or **N** position and ignition SW at **ST** position

I18 IGNITION SW

5-4 : Closed with the ignition SW at **ST** position

P1 PARK/NEUTRAL POSITION SW

9-6 : Closed with the A/T shift lever in **P** or **N** position

ST RELAY

5-3 : Closed with the Park/Neutral position SW at **P** or **N** position and ignition SW at **ST** position

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
E6	C	39	J8		40	P1		37
E7	D	39	J28		37	S2	A	37
E8	E	39	J35	A	40	S3	B	37
F10		36	J36	B	40			
I18		39	J41		40			

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2E		

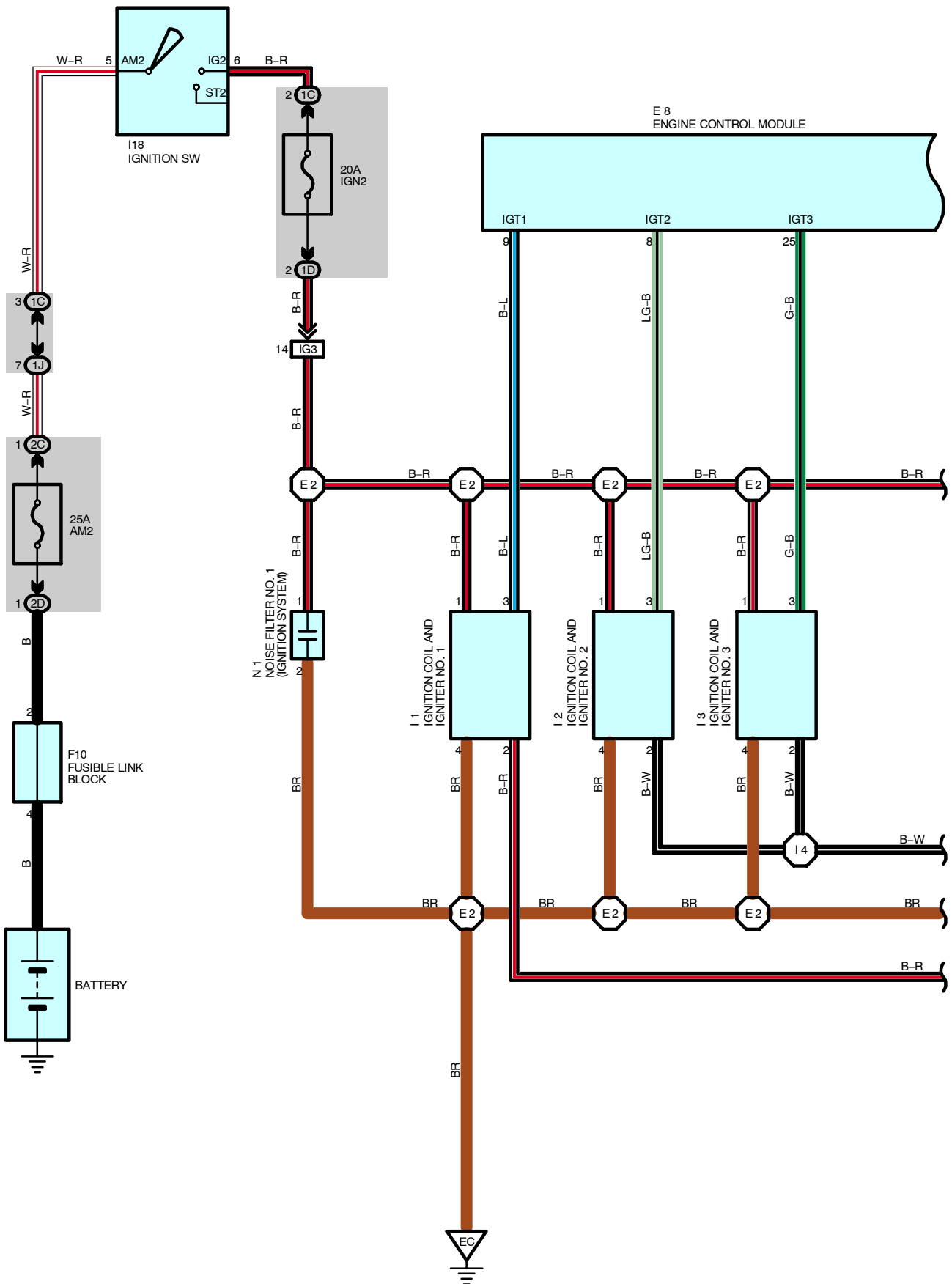
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	46	Engine No.2 Wire and Engine Room Main Wire (Under the Engine Room R/B)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

IGNITION



IGNITION

SERVICE HINTS

I18 IGNITION SW

5-6 : Closed with the ignition SW at **ON** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
E8	39	I3	37	I7	37
F10	36	I4	37	I8	37
I1	37	I5	37	I18	39
I2	37	I6	37	N1	37

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

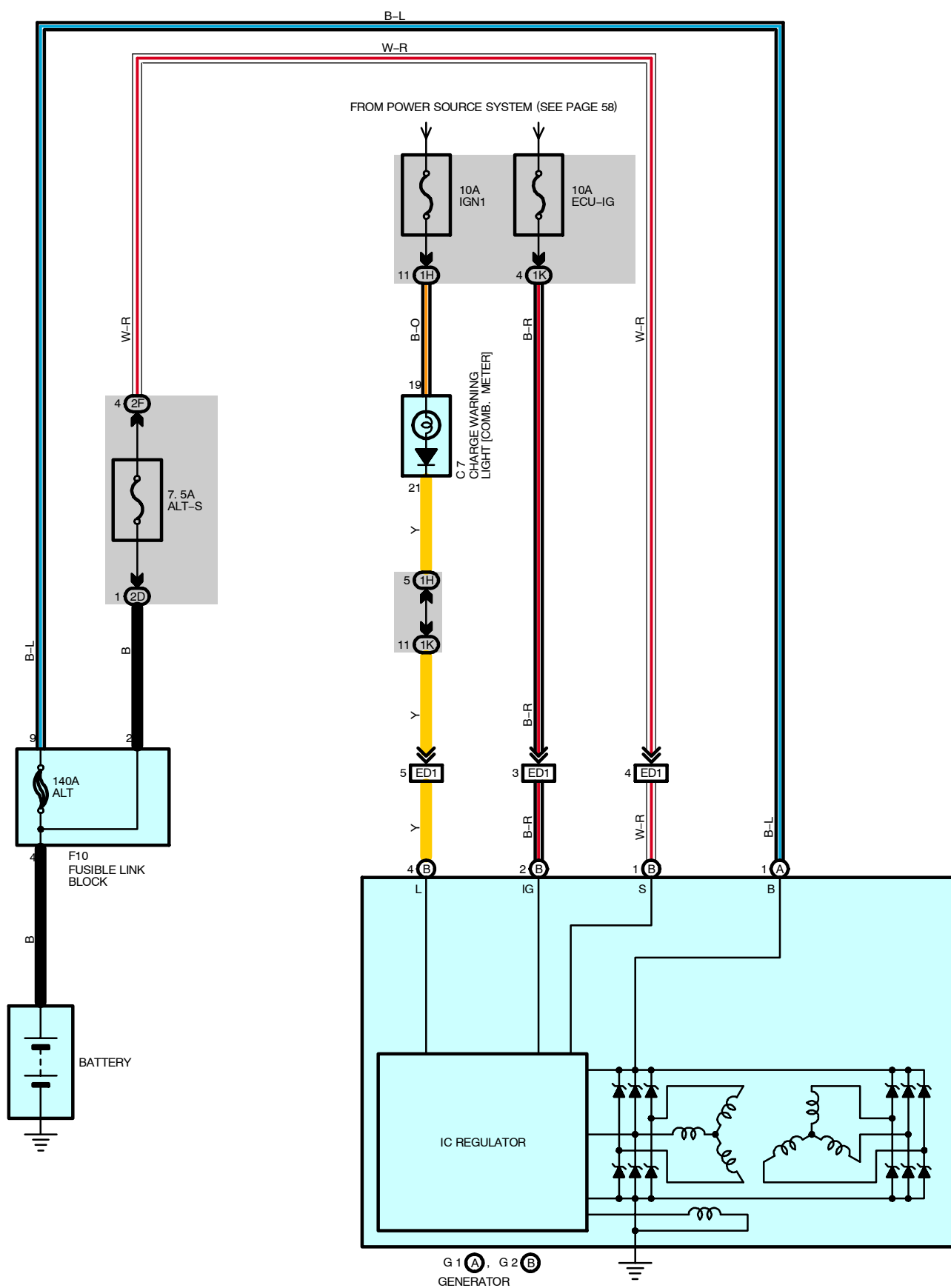
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Left Cylinder Head

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	46	Engine Wire	I4	50	Engine Wire



SERVICE HINTS

G2 (B) GENERATOR

- (B) 1-GROUND : **13.9–15.1** volts with the engine running at **2000** rpm and **25°C (77°F)**
13.5–14.3 volts with the engine running at **2000** rpm and **115°C (239°F)**
(B) 4-GROUND : **0–4** volts with the ignition SW at **ON** position and engine not running

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C7	38	G1	A	36	
F10	36	G2	B	36	

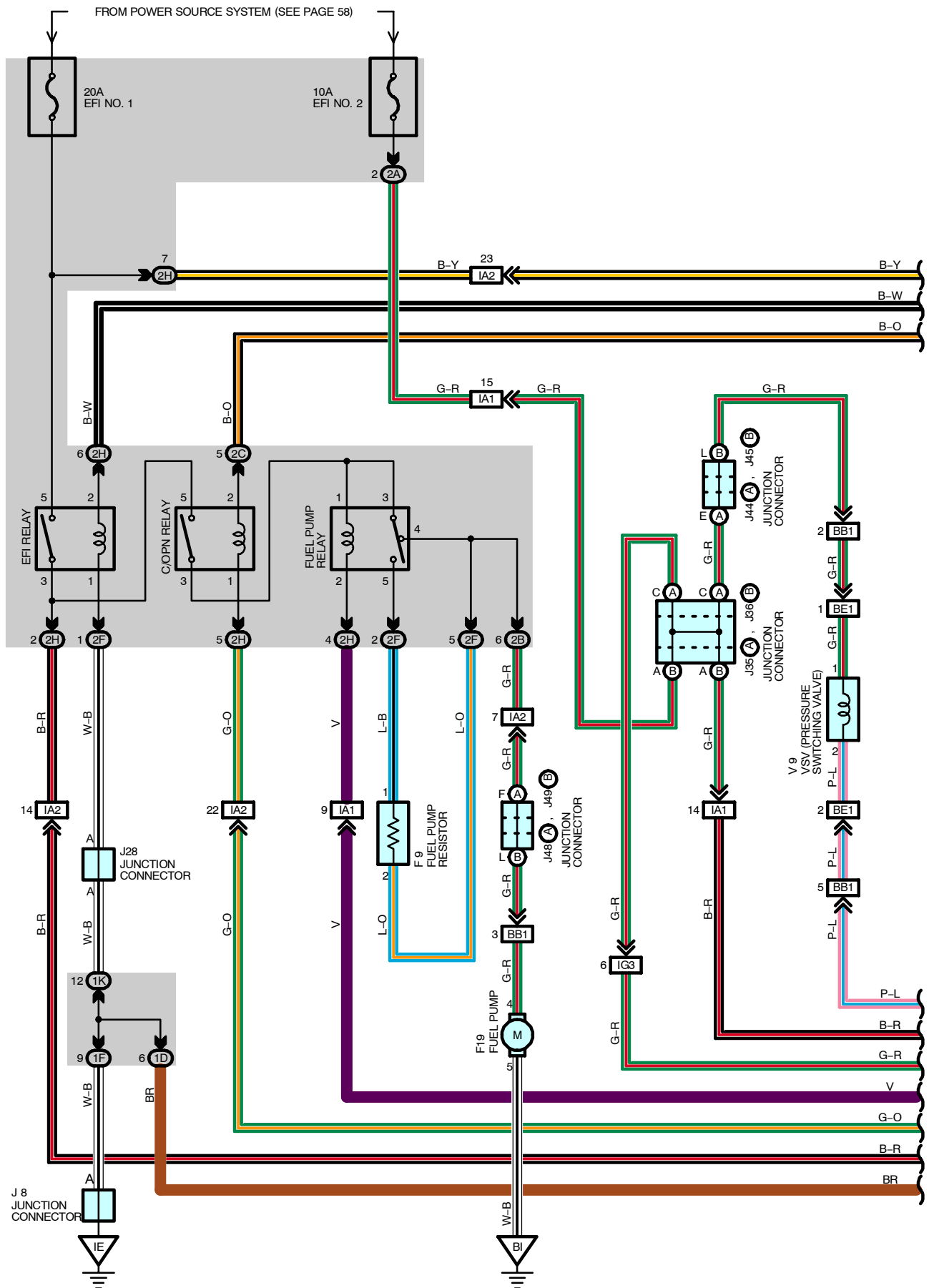
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

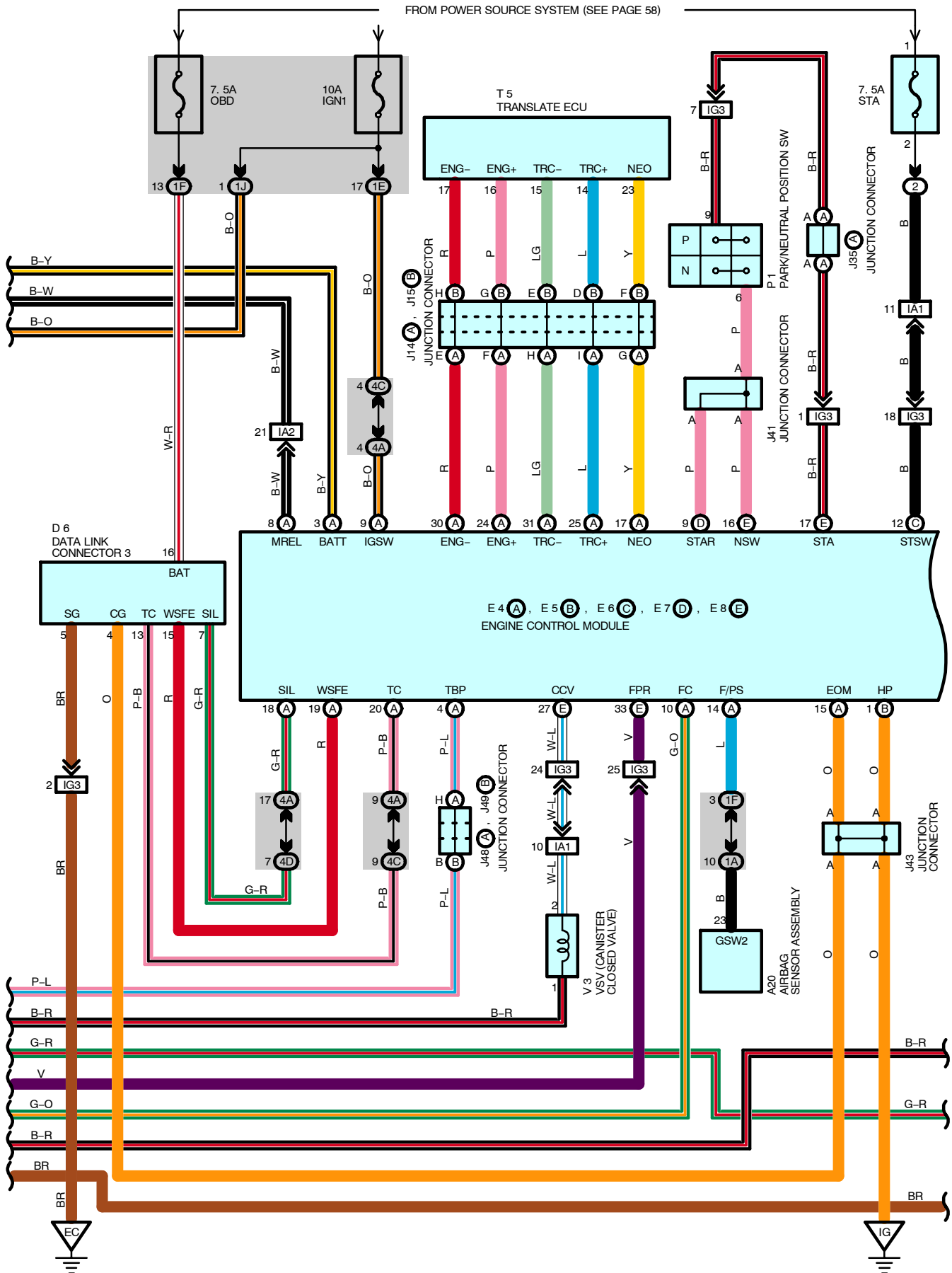
Code	See Page	Junction Block and Wire Harness (Connector Location)
1H	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2D	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		

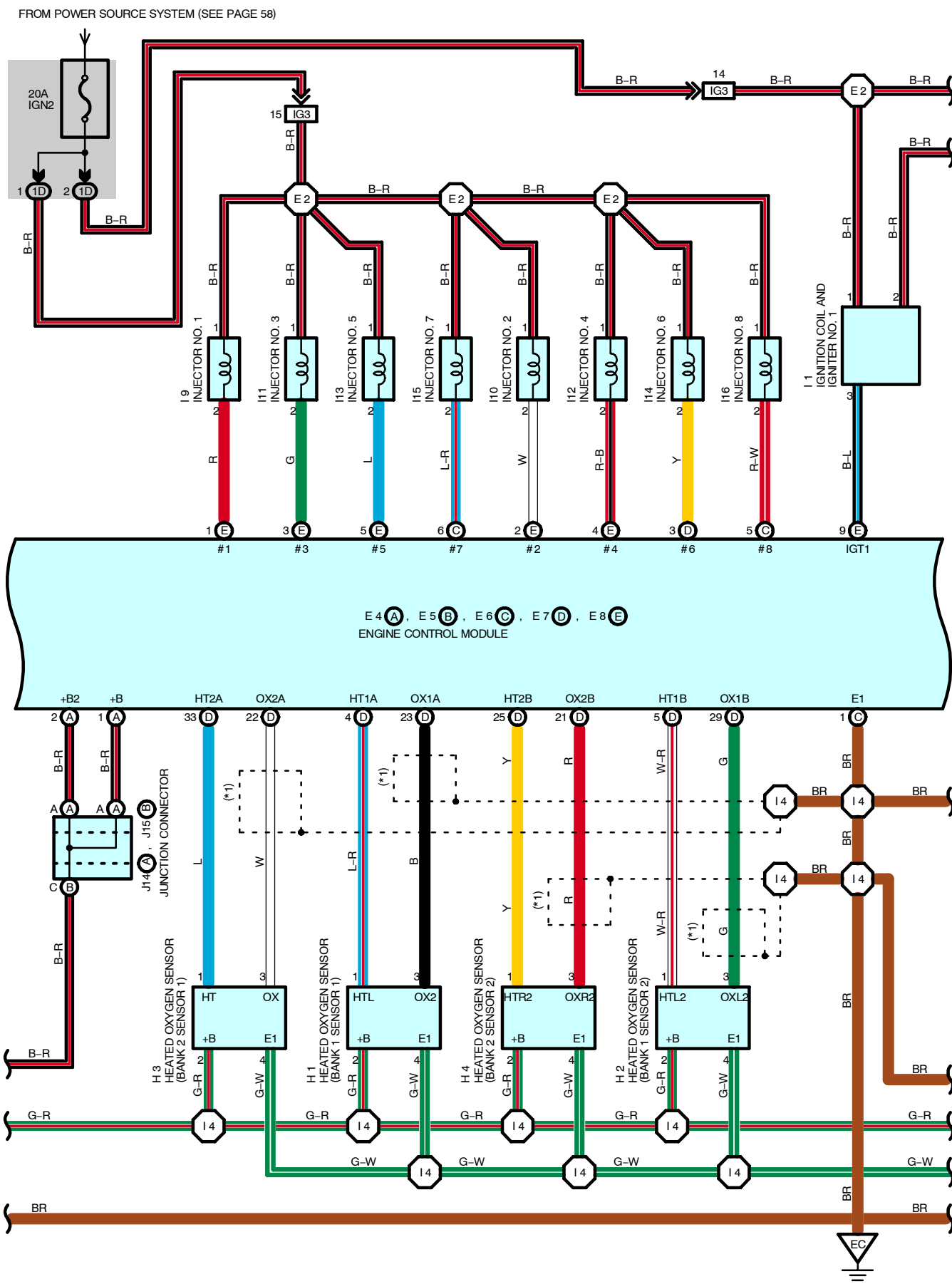
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	46	Engine No.2 Wire and Engine Room Main Wire (Under the Engine Room R/B)

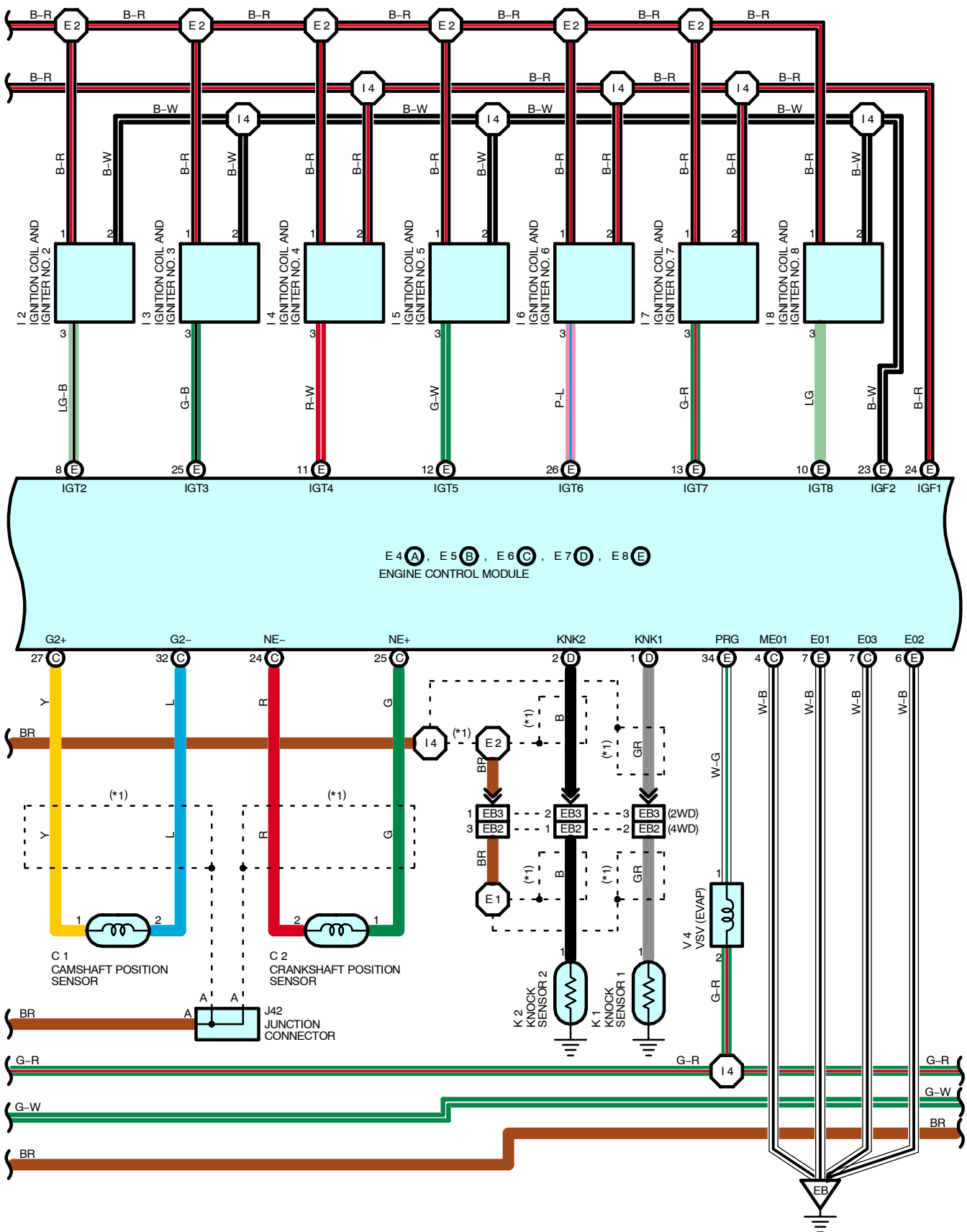
ENGINE CONTROL



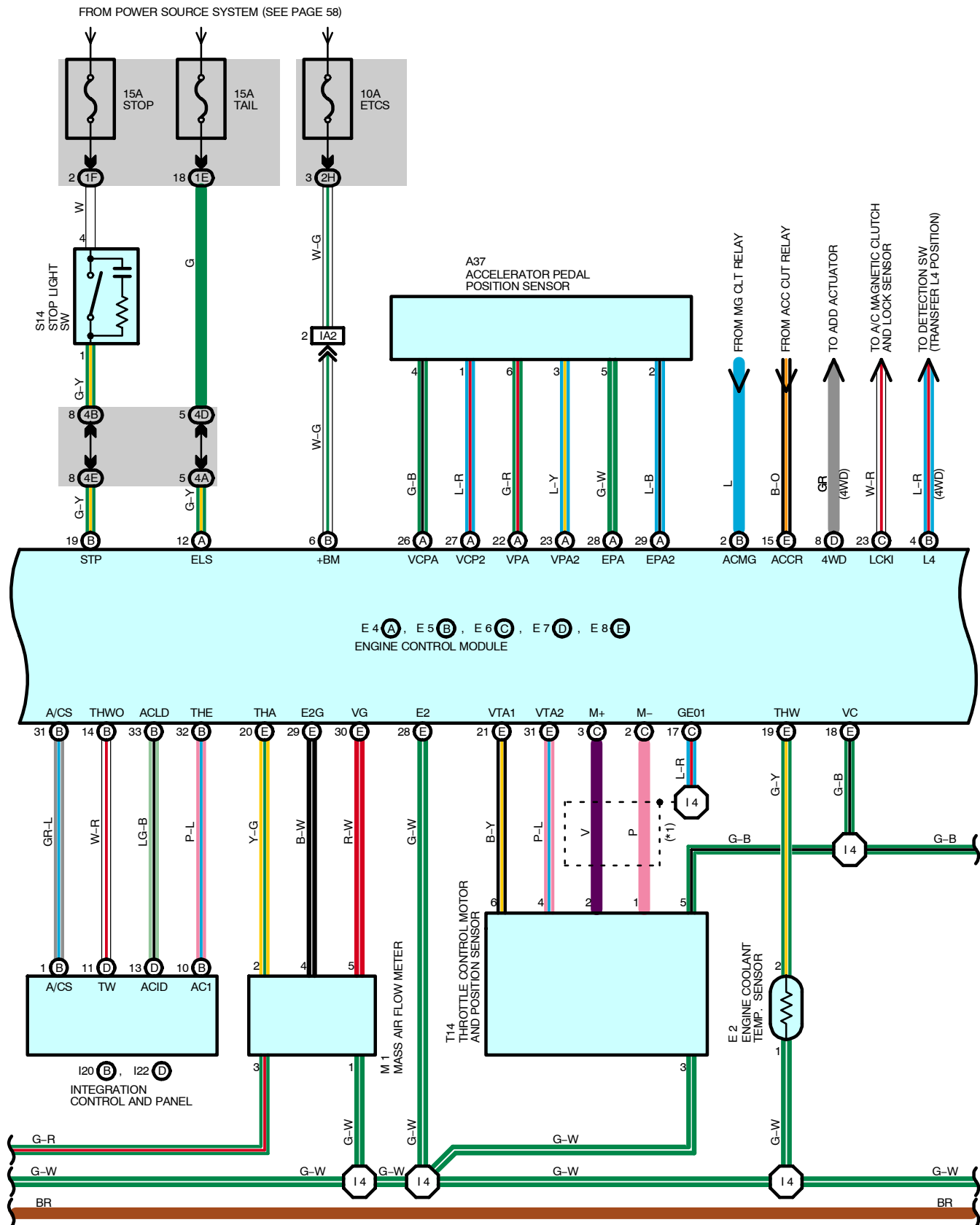




* 1 : SHIELDED

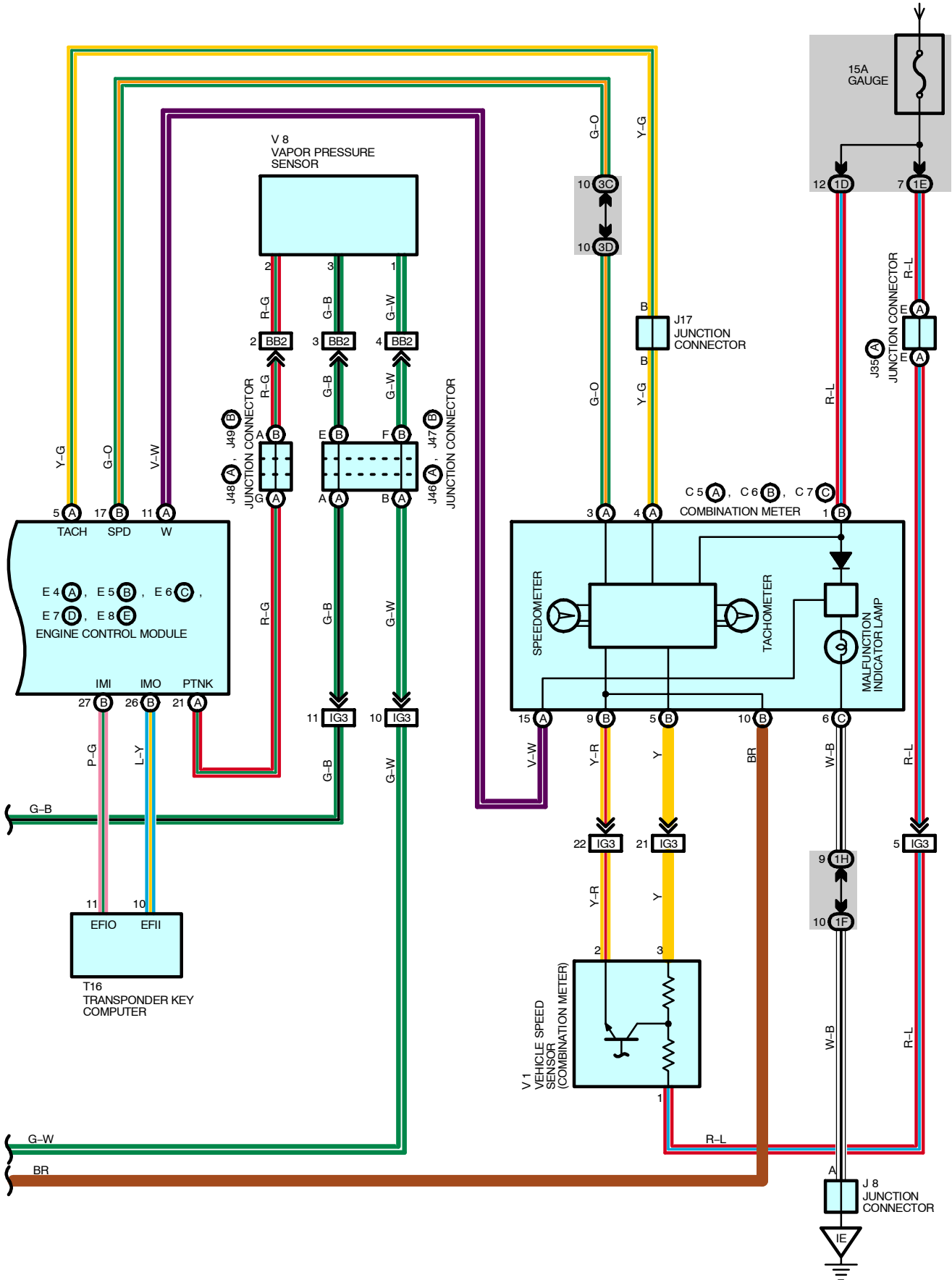


ENGINE CONTROL



* 1 : SHIELDED

FROM POWER SOURCE SYSTEM (SEE PAGE 58)



SYSTEM OUTLINE

The engine control system utilizes a microcomputer and maintains overall control of the engine, transmission etc. An outline of the engine control is given here.

1. INPUT SIGNALS

(1) Engine coolant temp. signal circuit

The engine coolant temp. sensor detects the engine coolant temp. and has a built-in thermistor with a resistance which varies according to the engine coolant temp. The engine coolant temp. is input into TERMINAL THW of the engine control module as a control signal.

(2) Intake air temp. signal circuit

The intake air temp. sensor is installed in the mass air flow meter and detects the intake air temp., which is input as a control signal to TERMINAL THA of the engine control module.

(3) Oxygen sensor signal circuit

The oxygen density in the exhaust emission is detected and is input as a control signal from the heated oxygen sensors to TERMINALS OX1A, OX2A, OX1B, OX2B of the engine control module.

(4) RPM signal circuit

The camshaft position is detected by the camshaft position sensor and is input into TERMINAL G2+ of the engine control module as a control signal. Also, the engine RPM is detected by the crankshaft position sensor and the signal is input into TERMINAL NE+ of the engine control module.

(5) Throttle position sensor signal circuit

The throttle position sensor detects the throttle valve opening angle as a control signal, which is input into TERMINALS VTA1, VTA2 of the engine control module.

(6) Vehicle speed circuit

The vehicle speed sensor (Combination meter) detects the vehicle speed, and the signal is input into TERMINAL SPD of the engine control module via the combination meter.

(7) Battery signal circuit

Voltage is constantly applied to TERMINAL BATT of the engine control module. When the ignition SW is turned on, the voltage for engine control module start up power supply is applied through the EFI relay, to TERMINALS +B, +B2 of the engine control module. The current from the IGN1 fuse flows to TERMINAL IGSW of the engine control module, and voltage is constantly applied to TERMINAL +BM.

(8) Intake air volume signal circuit

The intake air volume is detected by the mass air flow meter, and is input as a control signal to TERMINAL VG of the engine control module.

(9) Stop light SW signal circuit

The stop light SW is used to detect whether the vehicle is braking or not, and the signal is input into TERMINAL STP of the engine control module as a control signal.

(10) Starter signal circuit

To confirm whether the engine is cranking, the voltage applied to the starter motor when the engine is cranking is detected, and is input into TERMINAL STA of the engine control module as a control signal.

(11) Engine knock signal circuit

Engine knocking is detected by the knock sensors, and is input into TERMINALS KNK1, KNK2 of the engine control module as a control signal.

(12) A/C SW signal system

The operating voltage of the A/C magnetic clutch is detected and input in the form of a control signal to TERMINAL THE of the engine control module.

2. CONTROL SYSTEM

- * SFI system

The SFI system monitors the engine condition through the signals input from each sensors to the engine control module. The control signal is sent to the engine control module TERMINALS #1, #2, #3, #4, #5, #6, #7 and #8 to operate the injector (Fuel injection). The SFI system controls the fuel injection by the engine control module in response to the driving conditions.

- * ESA system

The ESA system monitors the engine condition through the signals input from each sensors to the engine control module. The best ignition timing is decided according to this data and the data memorized in the engine control module. The control signal is output to TERMINALS IGT1, IGT2, IGT3, IGT4, IGT5, IGT6, IGT7, IGT8, and these signals control the igniter to provide the best ignition timing.

- * Heated oxygen sensor heater control system

The heated oxygen sensor heater control system turns the heater on when the intake air volume is low (Temp. of exhaust emission is low), and warms up the heated oxygen sensors to improve their detection performance. The engine control module evaluates the signals from each sensors, and outputs current to TERMINALS HT1A, HT2A, HT1B or HT2B to control the heater.

- * Fuel pump control system

The engine control module supplies current to TERMINAL FPR, and controls the operation speed of the fuel pump with the FUEL PUMP relay.

- * ACIS

The ACIS includes a valve in the bulkhead separating the surge tank into two parts. This valve is opened and closed in accordance with the driving conditions to control the intake manifold length in two stages, for increased engine output in all ranges from low to high speeds.

- * ETCS-i

The ETCS-i controls the engine output at its optimal level in accordance with the opening of the accelerator pedal, under all driving conditions.

3. DIAGNOSIS SYSTEM

When there is a malfunction in the engine control module signal system, the malfunctioning system is recorded in the memory. The malfunctioning system can be found by reading the code displayed on the malfunction indicator lamp.

4. FAIL-SAFE SYSTEM

When a malfunction has occurred in any system, there is a possibility of causing engine trouble due to continued control based on that system. In that case, the fail-safe system either controls the system using the data (Standard values) recorded in the engine control module memory, or else stops the engine.

ENGINE CONTROL

SERVICE HINTS

EFI RELAY

5-3 : Closed with the ignition SW at **ON** position

C/OPN RELAY

5-3 : Closed with the starter cranking or engine cranking

E2 ENGINE COOLANT TEMP. SENSOR

1-2 : Approx. **16.2 kΩ** (**-20°C**, **-4°F**)

: Approx. **2.45 kΩ** (**20°C**, **68°F**)

: Approx. **0.32 kΩ** (**80°C**, **176°F**)

E4 (A), E5 (B), E6 (C), E8 (E) ENGINE CONTROL MODULE

BATT-E1 : Always **9.0-14.0** volts

+BM-E1 : Always **9.0-14.0** volts

IGSW-E1 : **9.0-14.0** volts with the ignition SW at **ON** or **ST** position

+B, +B2-E1 : **9.0-14.0** volts with the ignition SW at **ON** or **ST** position

VC-E1 : **4.5-5.5** volts with the ignition SW at **ON** or **ST** position

VTA2-E1 : **2.0-2.9** volts with the ignition SW on and throttle valve fully closed

: **4.7-5.1** volts with the ignition SW on and throttle valve fully open

VTA1-E1 : **0.4-1.0** volts with the ignition SW on and throttle valve fully closed

: **3.2-4.8** volts with the ignition SW on and throttle valve fully open

VPA-E1 : **0.3-0.9** volts with the ignition SW on and throttle valve fully closed

: **3.2-4.8** volts with the ignition SW on and throttle valve fully open

VPA2-E1 : **1.8-2.7** volts with the ignition SW on and throttle valve fully closed

: **4.7-5.1** volts with the ignition SW on and throttle valve fully open

THA-E1 : **0.5-3.4** volts with the idling, intake air temp. **0°C (32°F)** - **80°C (176°F)**

THW-E1 : **0.2-1.0** volts with the idling, engine coolant temp. **60°C (140°F)** - **120°C (248°F)**

STA-E1 : **6.0** volts or more with the engine cranking

W-E1 : **9.0-14.0** volts with the idling and malfunction indicator lamp off

SPD-E1 : Pulse generation with the vehicle moving

STP-E1 : **7.5-14.0** volts with the brake pedal depressed

E01, E02, E03, ME01, E1, E0M, HP-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A20	38	I4	37	J42	40
A37	38	I5	37	J43	40
C1	36	I6	37	J44	40
C2	36	I7	37	J45	40
C5	38	I8	37	J46	40
C6	38	I9	37	J47	40
C7	38	I10	37	J48	40
D6	39	I11	37	J49	40
E2	36	I12	37	K1	37
E4	39	I13	37	K2	37
E5	39	I14	37	M1	37
E6	39	I15	37	P1	37
E7	39	I16	37	S14	41
E8	39	I20	39	T5	41
F9	36	I22	39	T14	37
F19	42	J8	40	T16	41
H1	36	J14	40	V1	37
H2	36	J15	40	V3	37
H3	36	J17	40	V4	37
H4	36	J28	37	V8	43
I1	37	J35	40	V9	43
I2	37	J36	40		
I3	37	J41	40		

 : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1D		
1E		
1F		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F		
2H		
3C	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4D		
4E		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

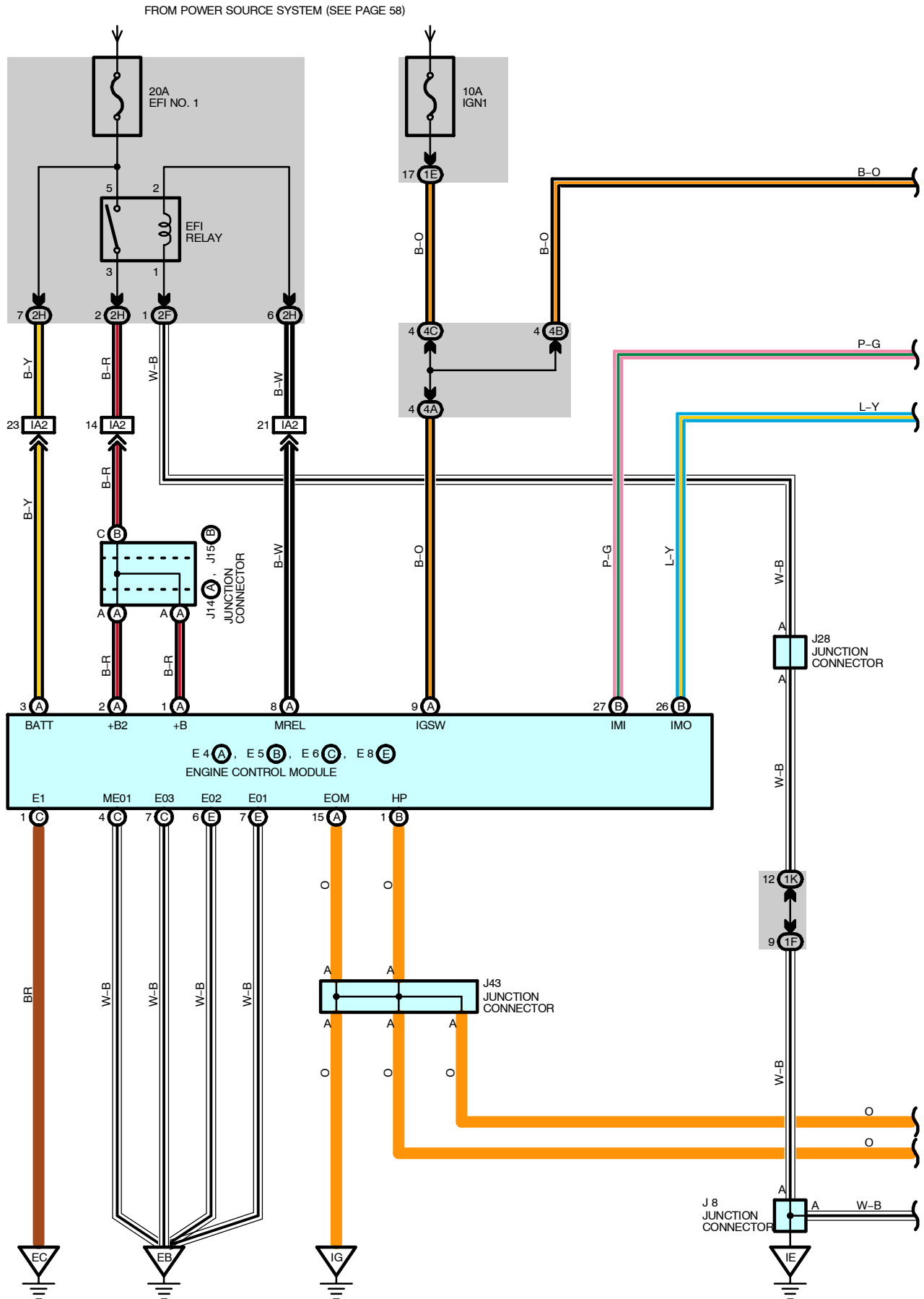
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB2	46	Engine No.2 Wire and Engine Wire (Near the Starter)
EB3		
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
BB1	52	Frame Wire and Floor No.1 Wire (Under the Front Passenger's Seat)
BB2		
BE1	52	Frame No.2 Wire and Frame Wire (Left Side of Room Partition Crossmember)

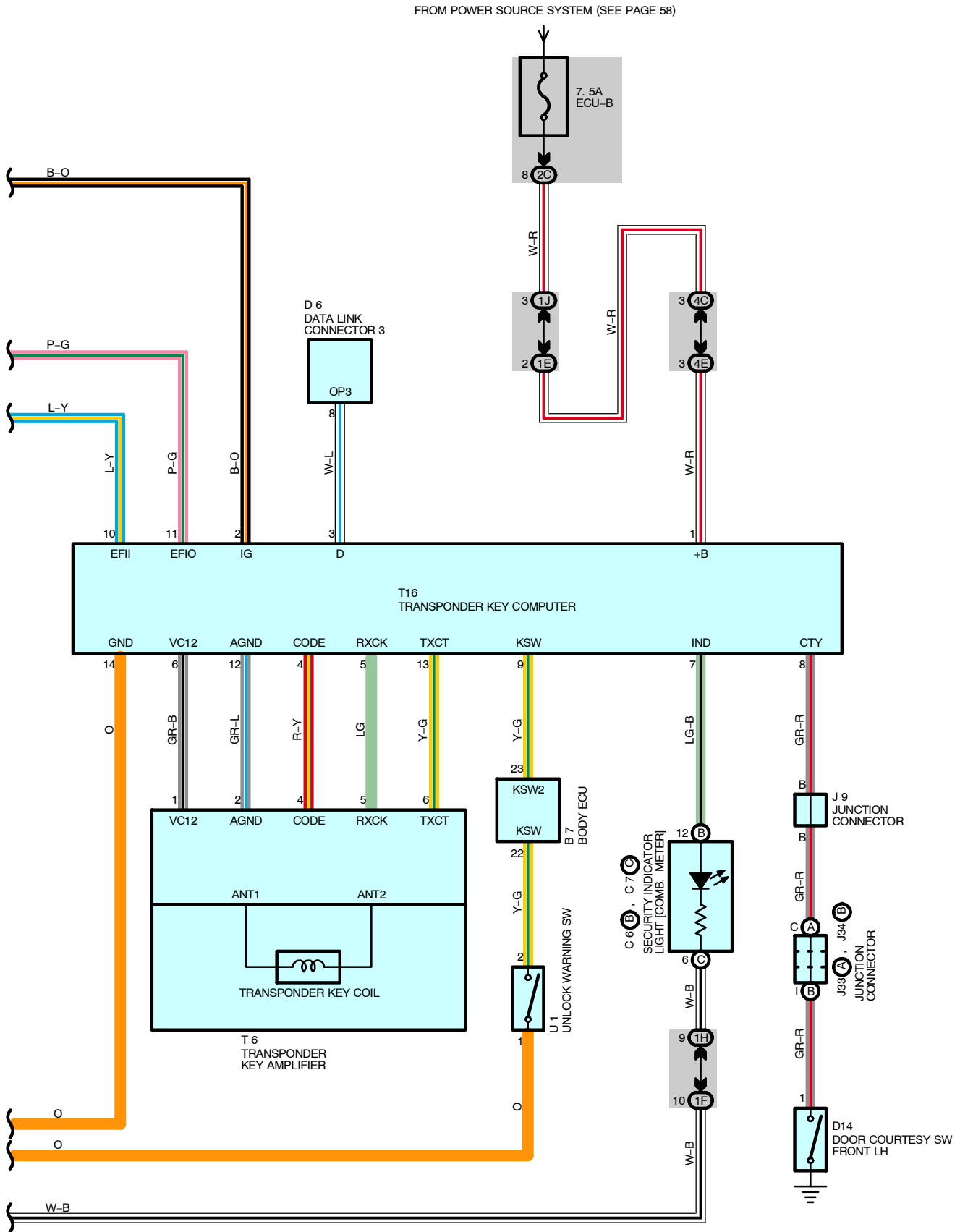
 : GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Rear Bank of Right Cylinder Head
EC	46	Rear Bank of Left Cylinder Head
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BI	52	Left Side of Room Partition Crossmember

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E1	46	Engine No.2 Wire	I4	50	Engine Wire
E2	46	Engine Wire			





ENGINE IMMOBILISER SYSTEM

SERVICE HINTS

E4 (A), E5 (B), E6 (C), E8 (E) ENGINE CONTROL MODULE

BATT-E1 : Always **9.0–14.0** volts

IGSW-E1 : **9.0–14.0** volts with the ignition SW at **ON** position

+B, +B2-E1 : **9.0–14.0** volts with the ignition SW at **ON** position

E1, ME01, E01, E02, E03, EOM, HP-GROUND : Always continuity

T16 TRANSPONDER KEY COMPUTER

1-GROUND : Always approx. **12** volts

2-GROUND : Approx. **12** volts with the ignition SW at **ON** position

14-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B7	38	E6 C	39	J33 A	40
C6 B	38	E8 E	39	J34 B	40
C7 C	38	J8	40	J43	40
D6	39	J9	40	T6	41
D14	42	J14 A	40	T16	41
E4 A	39	J15 B	40	U1	41
E5 B	39	J28	37		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4E		

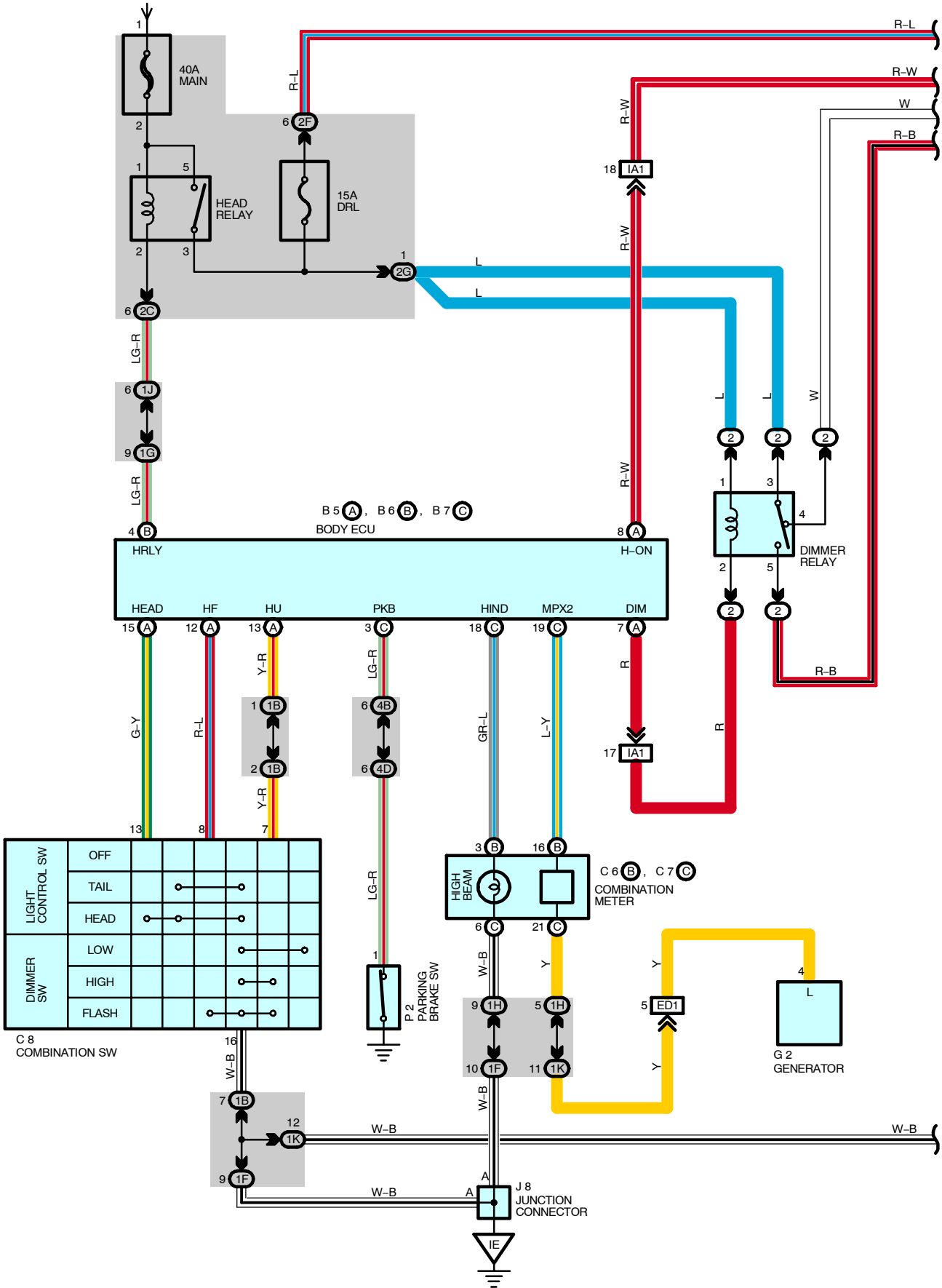
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

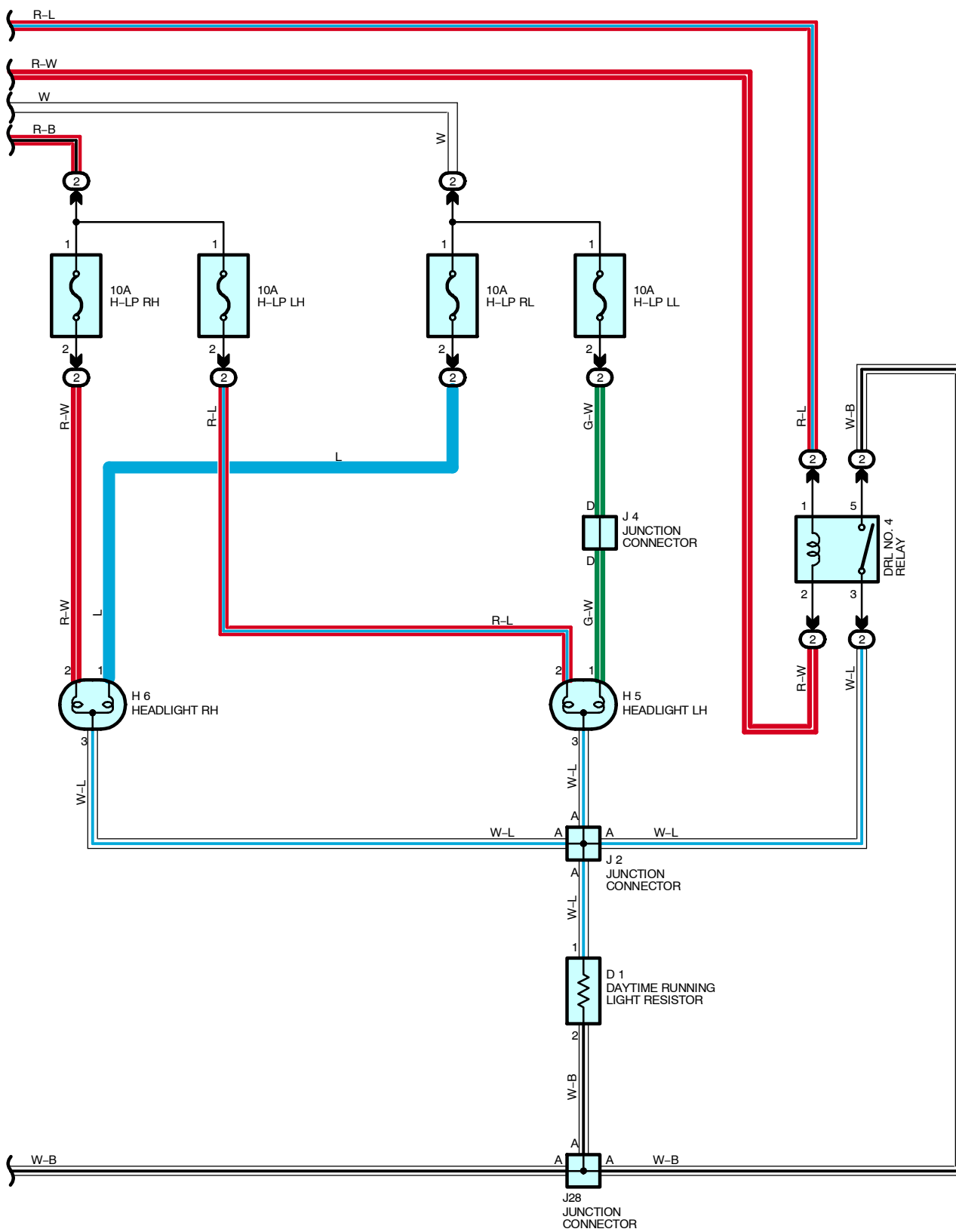
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Rear Bank of Right Cylinder Head
EC	46	Rear Bank of Left Cylinder Head
IE	48	Left Kick Panel
IG	48	Right Kick Panel

FROM POWER SOURCE SYSTEM (SEE PAGE 58)





HEADLIGHT (w/ DAYTIME RUNNING LIGHT)

SYSTEM OUTLINE

DAYTIME RUNNING LIGHT OPERATION

When the engine is started, the generator signal is input from the combination meter to TERMINAL (C) 19 of the body ECU. At this time, if the parking brake pedal is depressed (Parking brake SW ON), the body ECU is not activated, and the daytime running light system does not operate.

When the parking brake pedal is released (Parking brake SW OFF), a signal is input into TERMINAL (C) 3 of the body ECU. This activates the body ECU and the headlight turns on.

SERVICE HINTS

HEAD RELAY

5-3 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

Closed with the engine running and parking brake pedal released

DIMMER RELAY

5-3 : Closed with the HEAD relay on and dimmer SW at **HIGH** or **FLASH** position

C8 COMBINATION SW

13-16 : Closed with the light control SW at **HEAD** position

8-16 : Closed with the dimmer SW at **FLASH** position

7-16 : Closed with the dimmer SW at **HIGH** or **FLASH** position

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	38	C8	38		J2	37	
B6	B	38	D1	36		J4	37	
B7	C	38	G2	36		J8	40	
C6	B	38	H5	36		J28	37	
C7	C	38	H6	36		P2	41	

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
4B	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

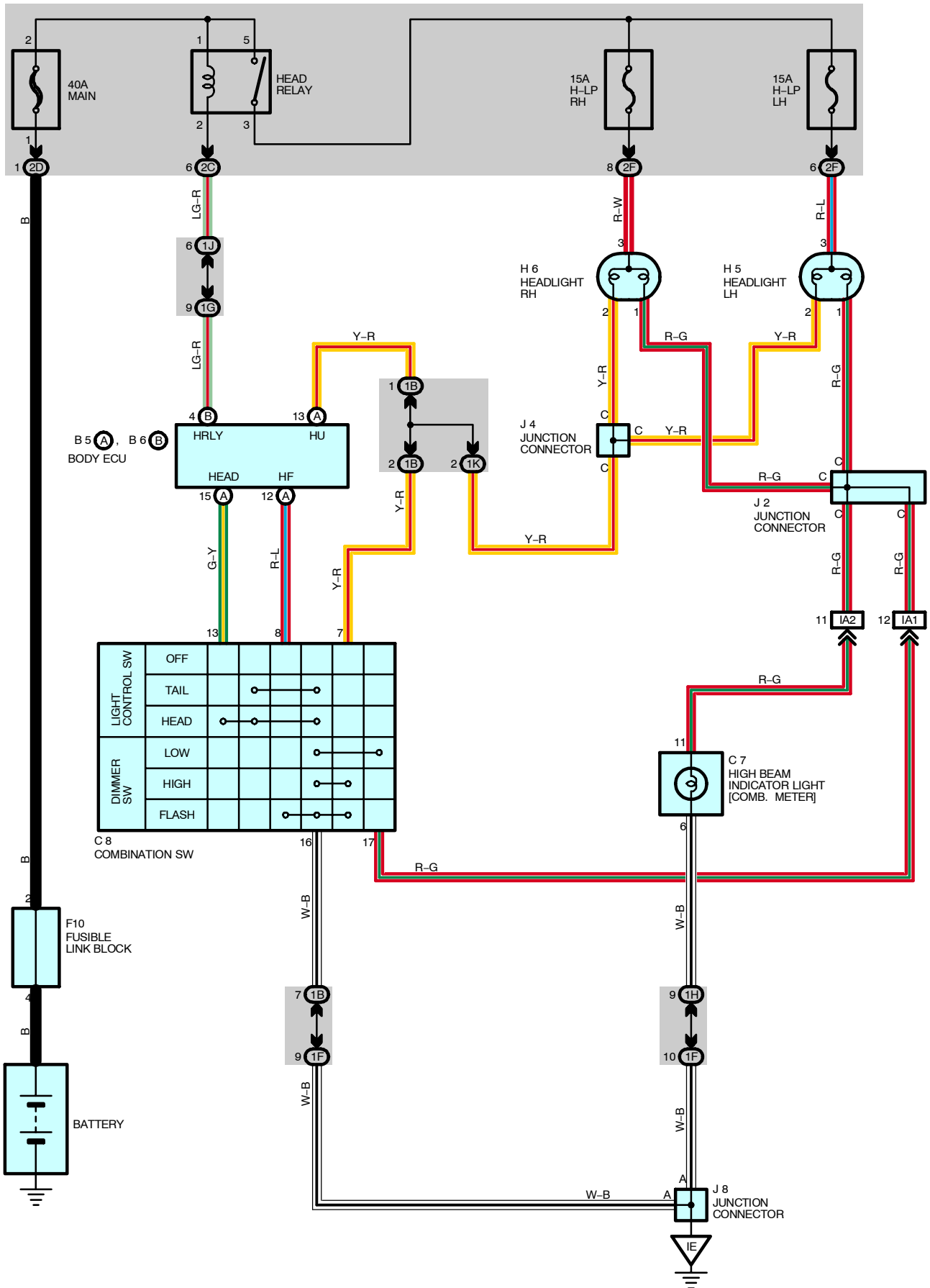
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ED1	46	Engine No.2 Wire and Engine Room Main Wire (Under the Engine Room R/B)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

HEADLIGHT (w/o DAYTIME RUNNING LIGHT)



SERVICE HINTS

HEAD RELAY

5-3 : Closed with the light control SW at **HEAD** position or dimmer SW at **FLASH** position

: PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
B5	A	38	F10	36	J4	37
B6	B	38	H5	36	J8	40
C7		38	H6	36		
C8		38	J2	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
2F		

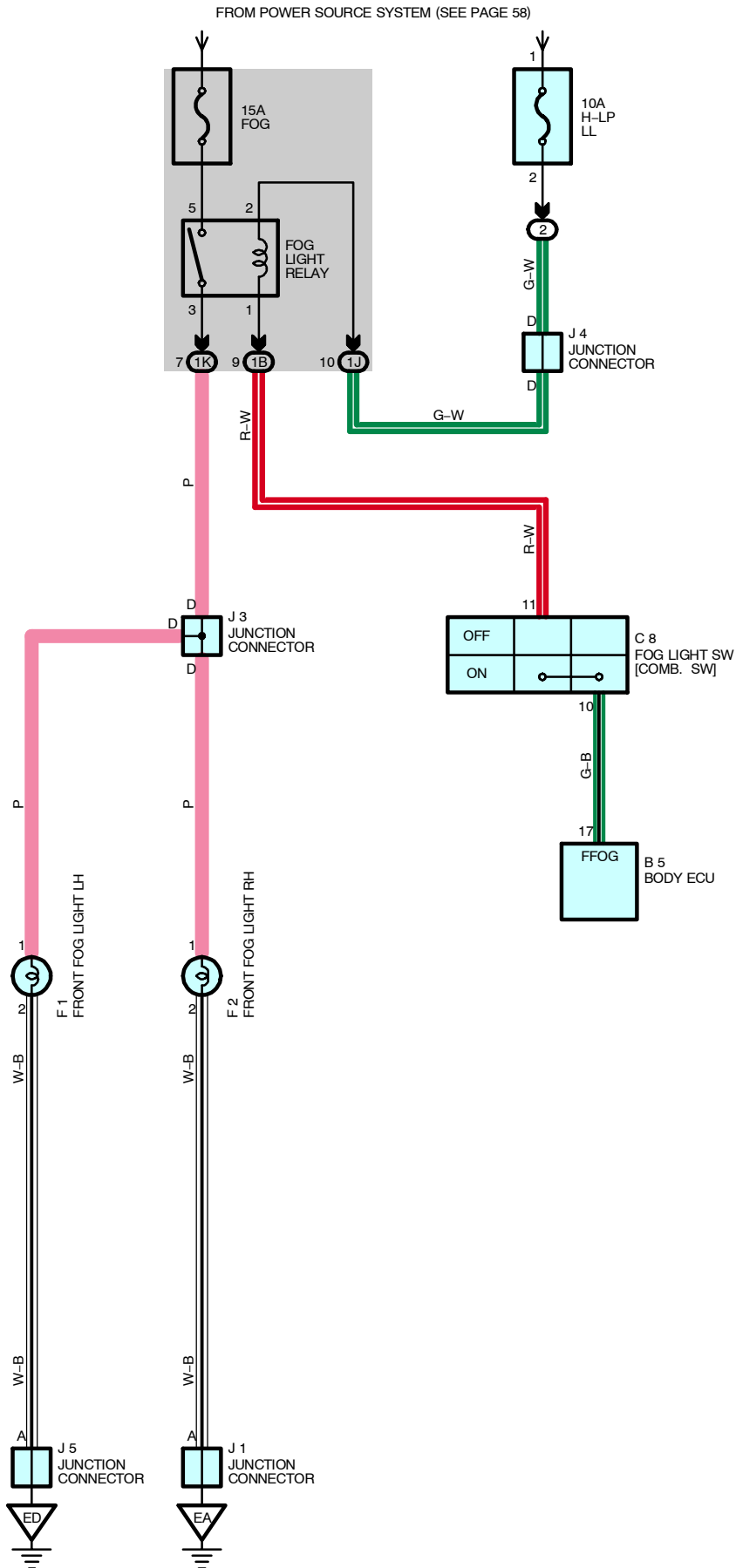
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

FOG LIGHT (w/ DAYTIME RUNNING LIGHT)



SERVICE HINTS

FOG LIGHT RELAY

5-3 : Closed with the light control SW at **HEAD** position, dimmer SW at **LOW** position and fog light SW on

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5	38	F2	36	J4	37
C8	38	J1	37	J5	37
F1	36	J3	37		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

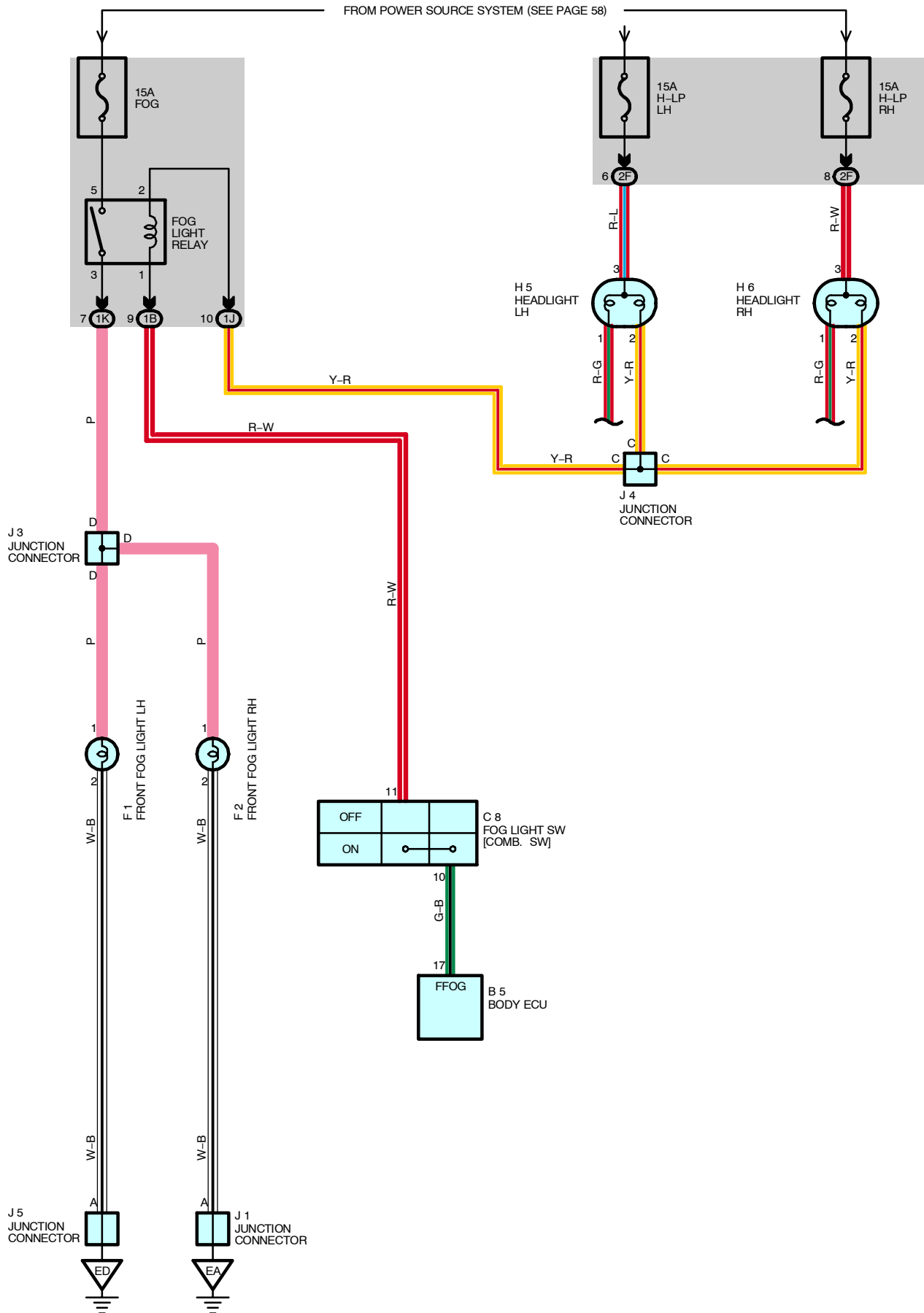
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		

: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
ED	46	Front Left Fender Apron

FOG LIGHT (w/o DAYTIME RUNNING LIGHT)



SERVICE HINTS

FOG LIGHT RELAY

5-3 : Closed with the light control SW at **HEAD** position, dimmer SW at **LOW** position and fog light SW on

: PARTS LOCATION

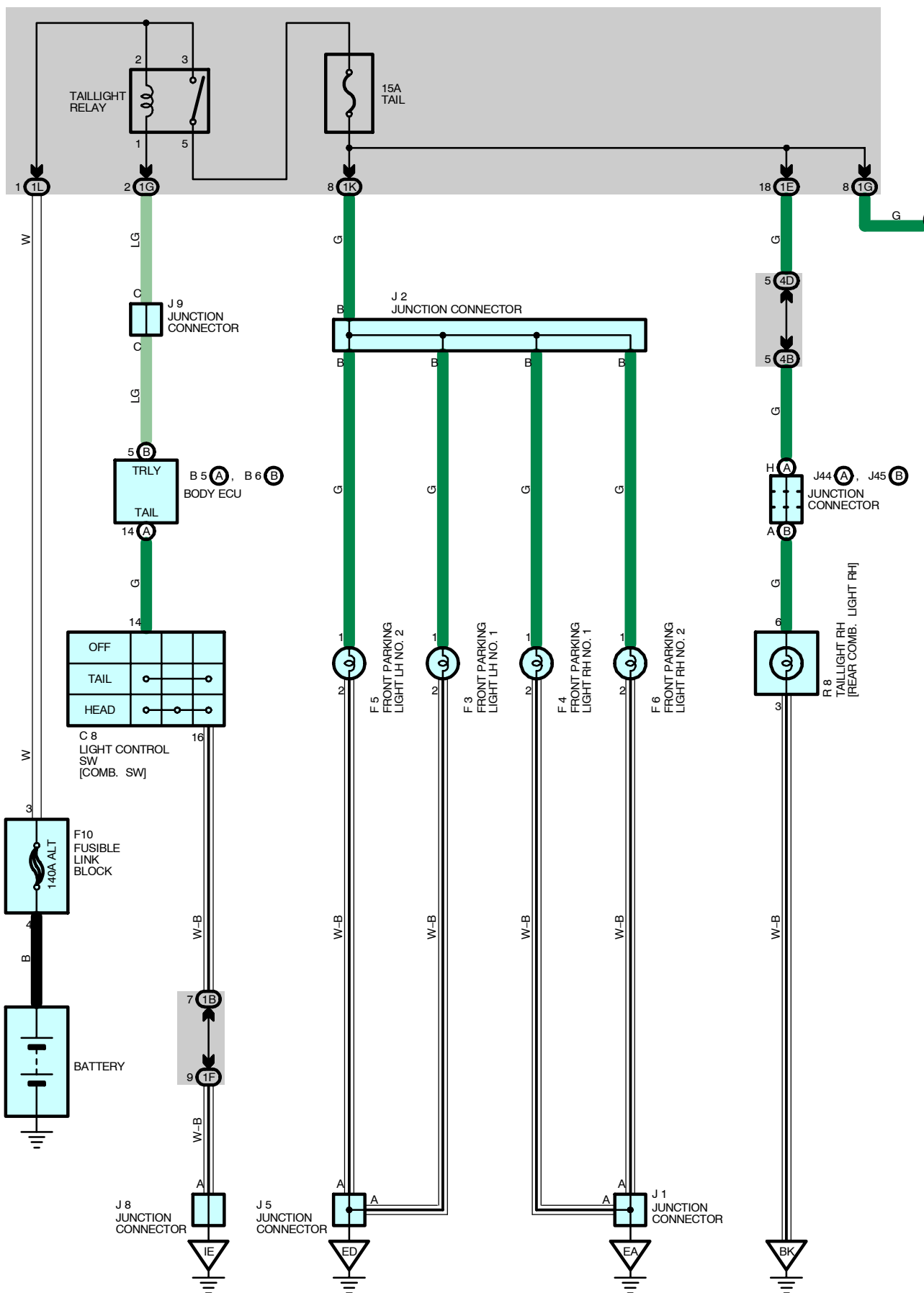
Code	See Page	Code	See Page	Code	See Page
B5	38	H5	36	J4	37
C8	38	H6	36	J5	37
F1	36	J1	37		
F2	36	J3	37		

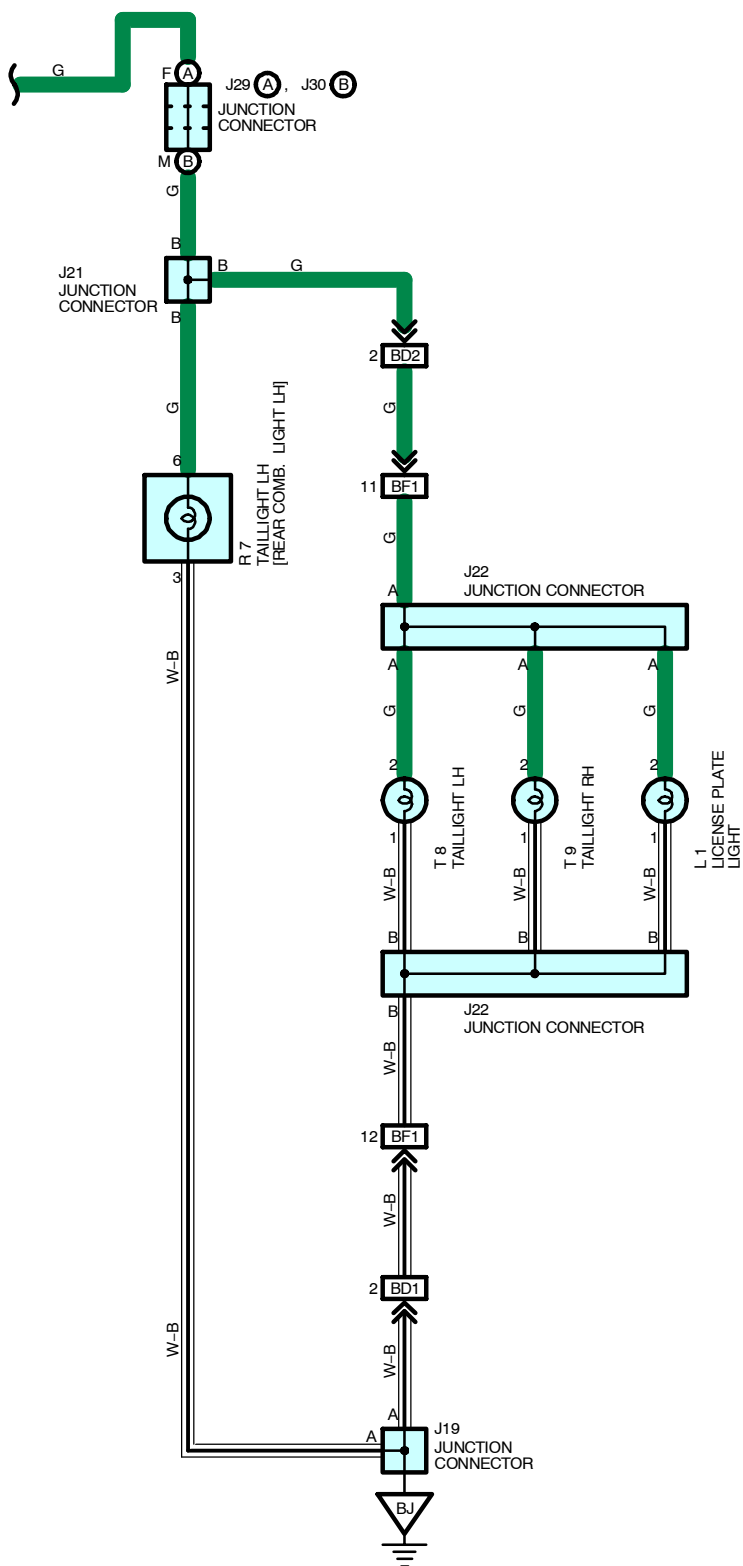
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
ED	46	Front Left Fender Apron





TAILLIGHT

SERVICE HINTS

C8 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	38	J2		37	J44	A	40
B6	B	38	J5		37	J45	B	40
C8		38	J8		40	L1		43
F3		36	J9		40	R7		43
F4		36	J19		42	R8		43
F5		36	J21		42	T8		43
F6		36	J22		42	T9		43
F10		36	J29	A	40			
J1		37	J30	B	40			

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
4B	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

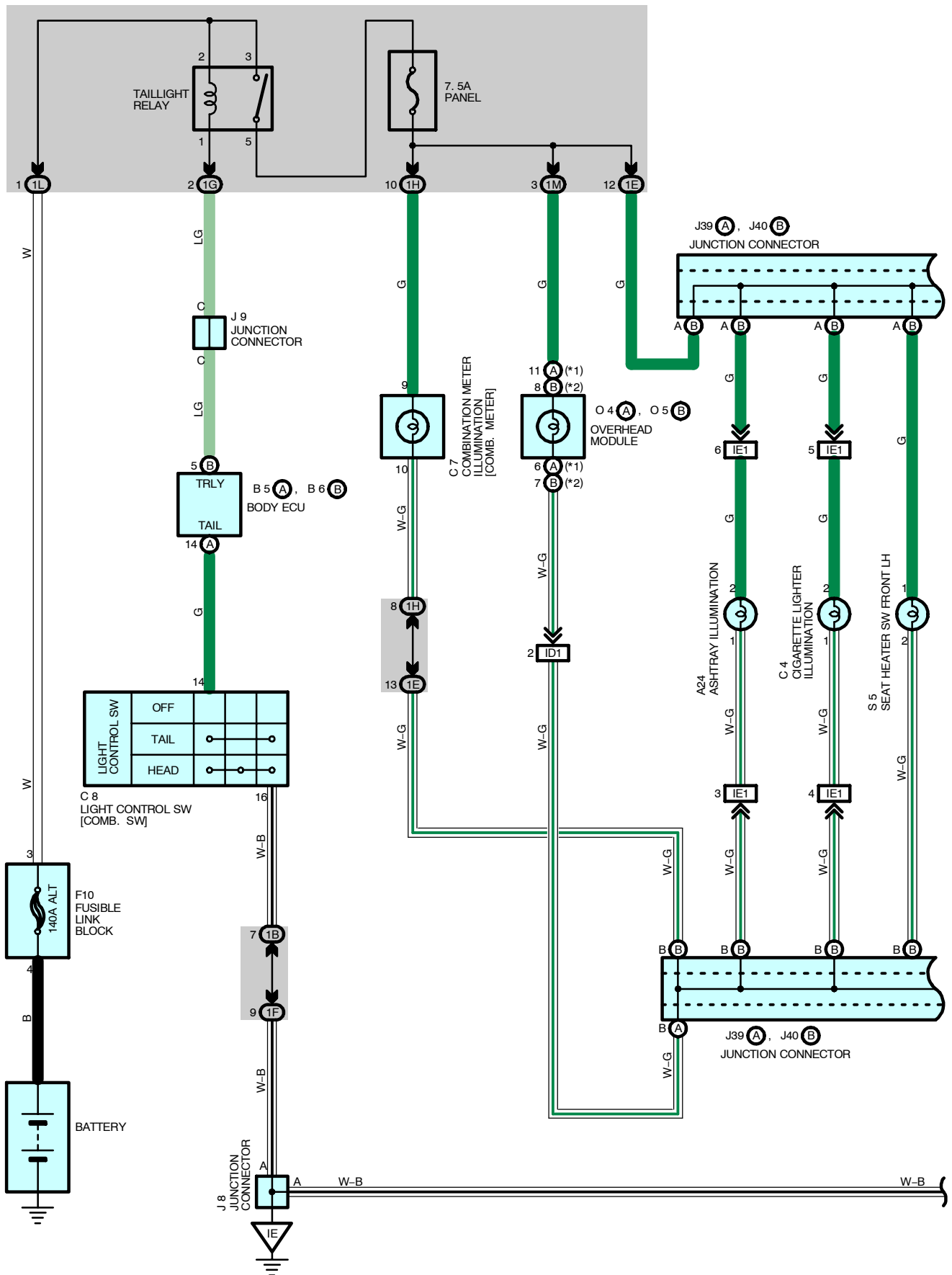
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

▽ : GROUND POINTS

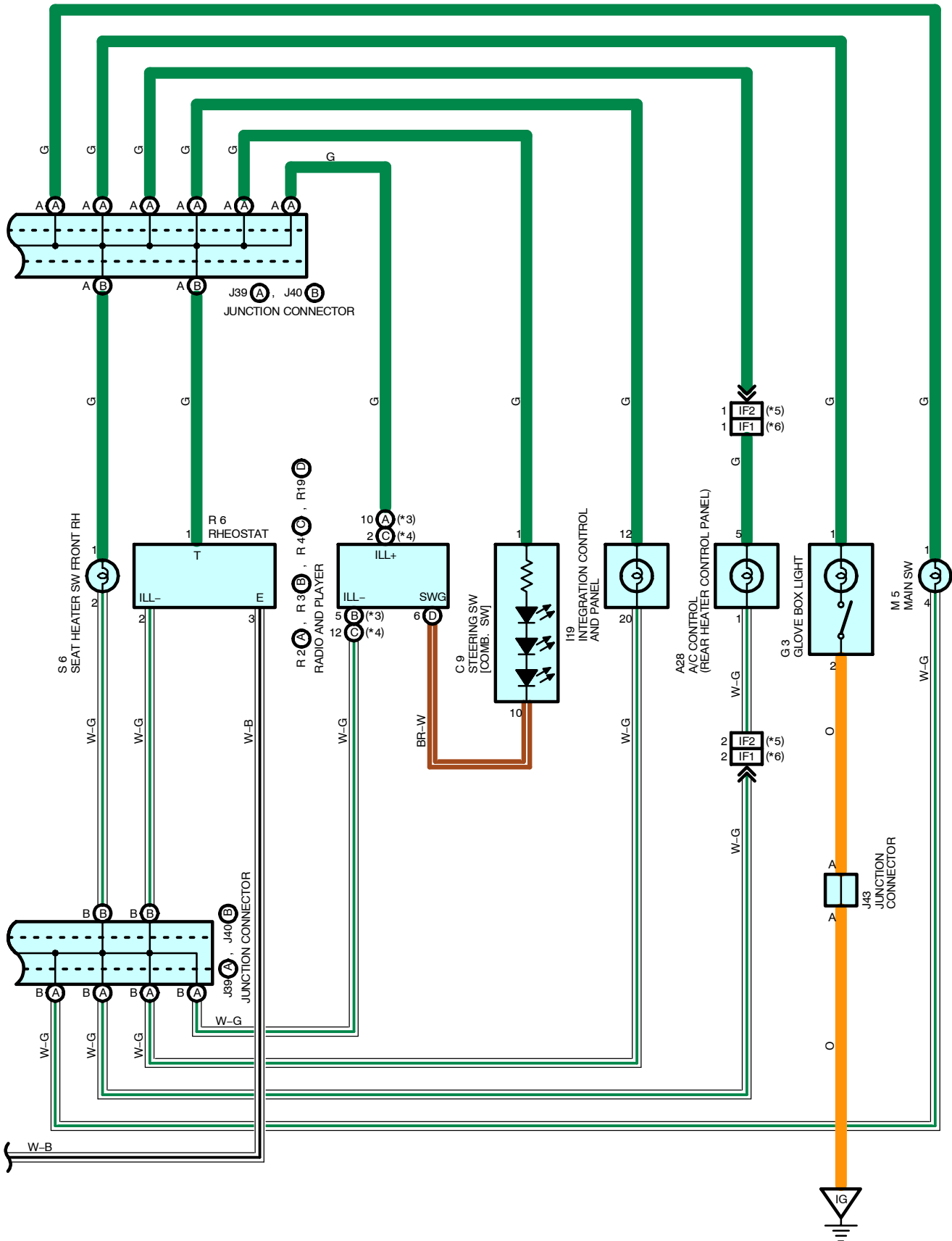
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

ILLUMINATION



- * 1 : W/O MOON ROOF
- * 2 : W/ MOON ROOF
- * 3 : 6 SPEAKER

- * 4 : 10 SPEAKER
- * 5 : W/ REAR SEAT ENTERTAINMENT SYSTEM, REAR SEAT AUDIO SYSTEM
- * 6 : W/O REAR SEAT ENTERTAINMENT SYSTEM, REAR SEAT AUDIO SYSTEM



ILLUMINATION

SERVICE HINTS

C8 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A24	38	G3	39	O5	B 43
A28	38	I19	39	R2	A 41
B5	A 38	J8	40	R3	B 41
B6	B 38	J9	40	R4	C 41
C4	38	J39	A 40	R6	41
C7	38	J40	B 40	R19	D 41
C8	38	J43	40	S5	41
C9	38	M5	41	S6	41
F10	36	O4	A 43		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1H		
1L	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Cowl Wire and Roof Wire (Left Side of Instrument Panel)
IE1	48	Cigarette Lighter Wire and Cowl Wire (Instrument Panel Brace LH)
IF1	48	Console Box Wire and Cowl Wire (Rear Console)
IF2		

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel



SERVICE HINTS

T7 TURN SIGNAL FLASHER RELAY

4-GROUND : Always approx. **12** volts

1-GROUND : Approx. **12** volts with the ignition SW at **ON** position

7-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C7	38	J4	37	J35	A 40
C8	38	J5	37	J36	B 40
F3	36	J8	40	J44	A 40
F4	36	J12	40	J45	B 40
F5	36	J16	40	R7	43
F6	36	J19	42	R8	43
I19	39	J20	42	T7	41
J1	37	J29	A 40		
J3	37	J30	B 40		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1H		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

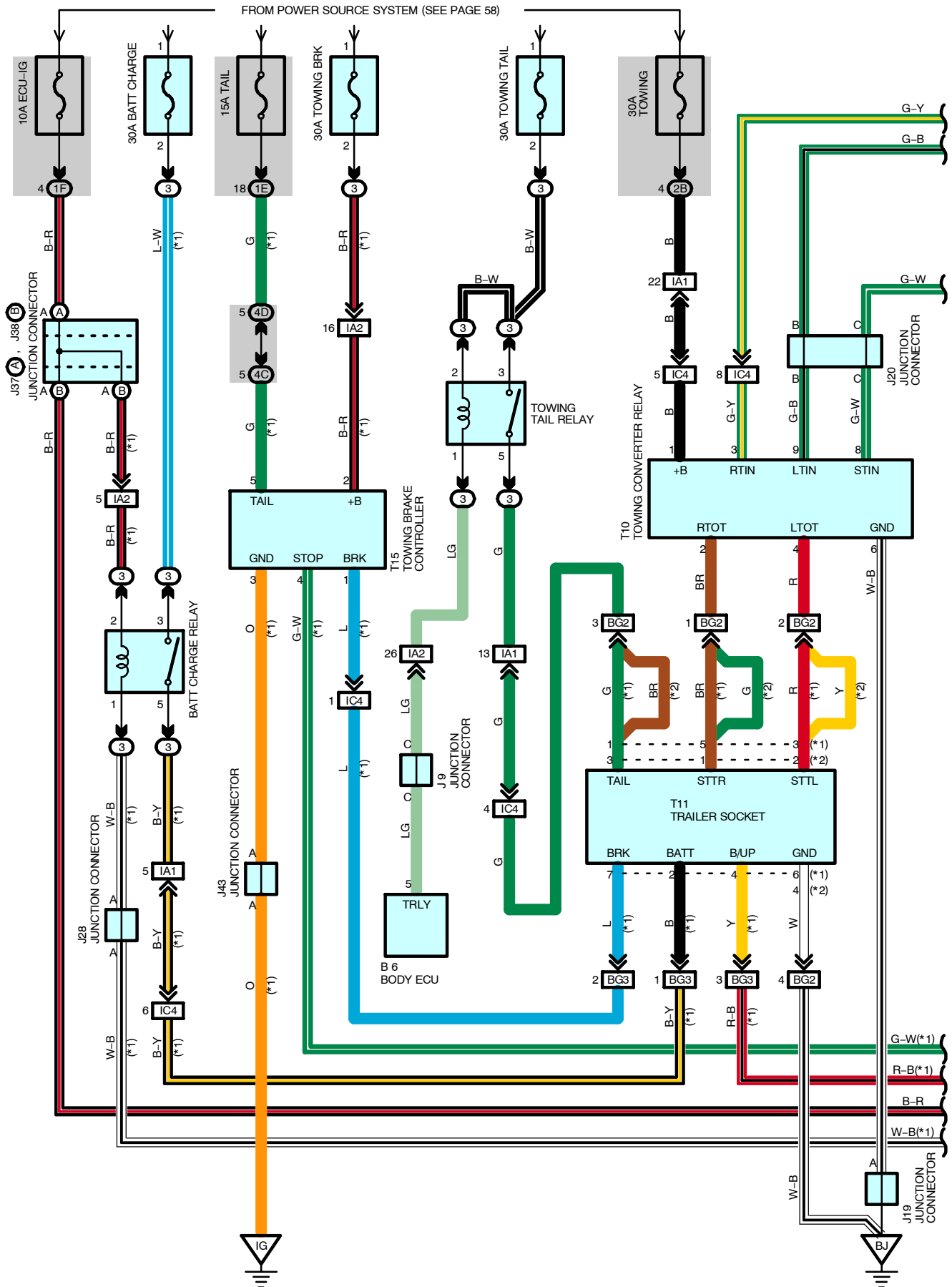
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

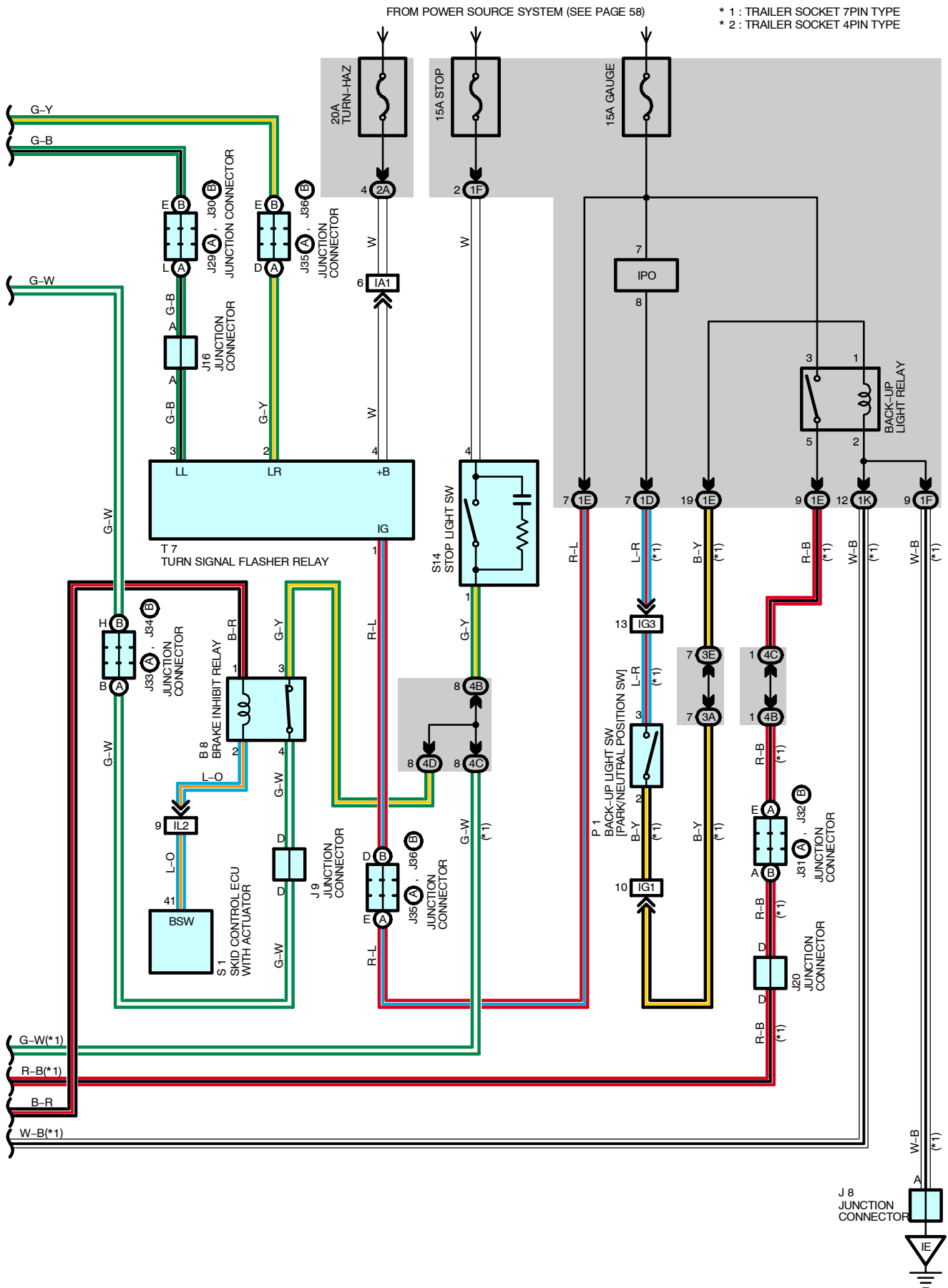
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

TRAILER TOWING





TRAILER TOWING

SERVICE HINTS

T10 TOWING CONVERTER RELAY

8-GROUND : Approx. **12** volts with the brake pedal depressed

1-GROUND : Always approx. **12** volts

6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6	38	J30	B 40	J43	40
B8	38	J31	A 40	P1	37
J8	40	J32	B 40	S1	37
J9	40	J33	A 40	S14	41
J16	40	J34	B 40	T7	41
J19	42	J35	A 40	T10	43
J20	42	J36	B 40	T11	43
J28	37	J37	A 40	T15	41
J29	A 40	J38	B 40		

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3E		
4B	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		
4D		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

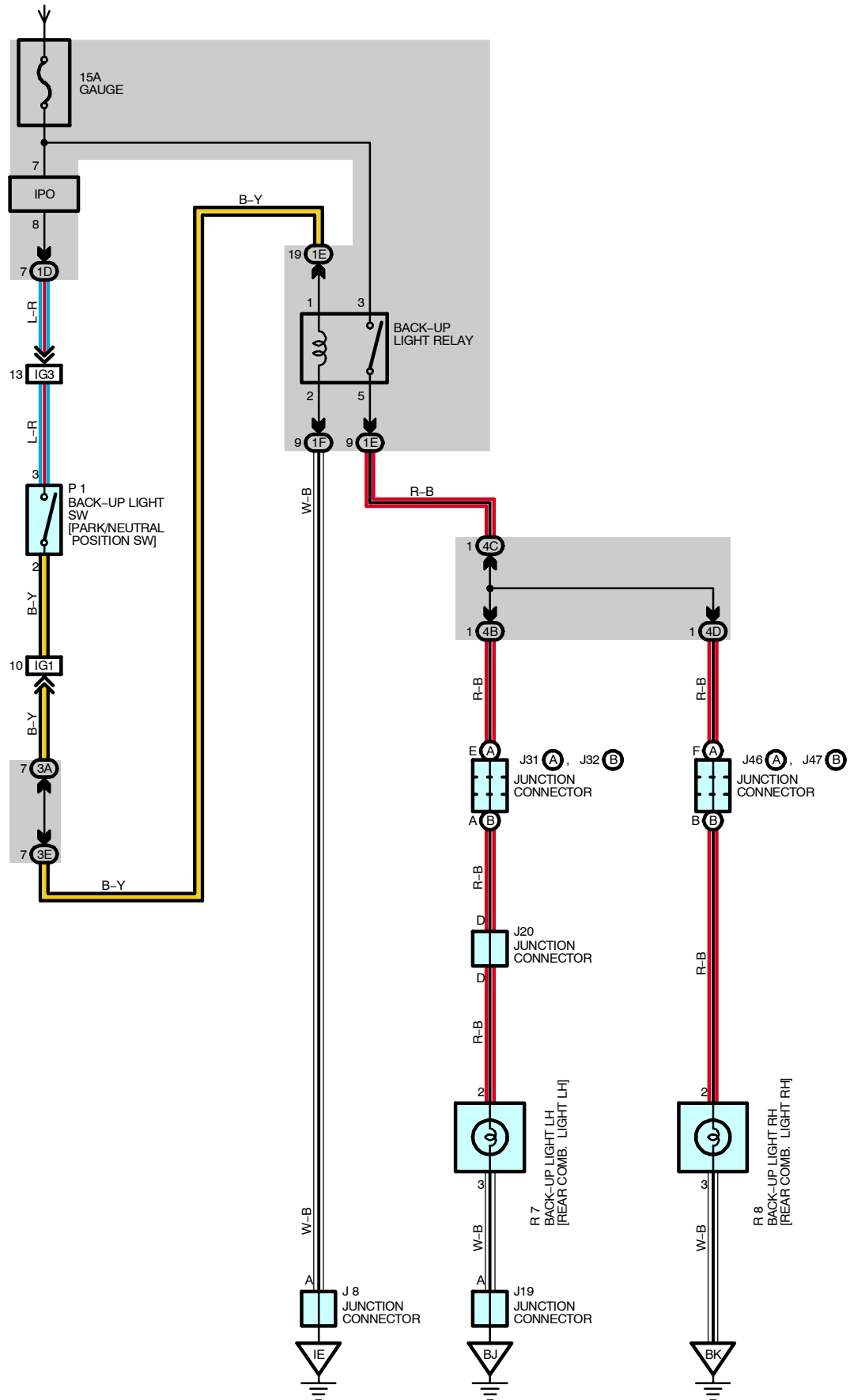
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IC4	48	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		
IL2	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
BG2	52	Floor No.2 Wire and Frame No.3 Wire (Left Side of Rear Floor Crossmember)
BG3		

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BJ	52	Left Side of Rear Quarter Panel

BACK-UP LIGHT

FROM POWER SOURCE SYSTEM (SEE PAGE 58)



SERVICE HINTS

P1 BACK-UP LIGHT SW [PARK/NEUTRAL POSITION SW]

3-2 : Closed with the shift lever in **R** position

BACK-UP LIGHT RELAY

3-5 : Closed with the shift level in **R** position and ignition SW at **ON** position

○ : PARTS LOCATION

Code		See Page		Code		See Page		Code		See Page	
J8		40		J32	B	40		R7		43	
J19		42		J46	A	40		R8		43	
J20		42		J47	B	40					
J31	A	40		P1		37					

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3E		
4B	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		
4D		

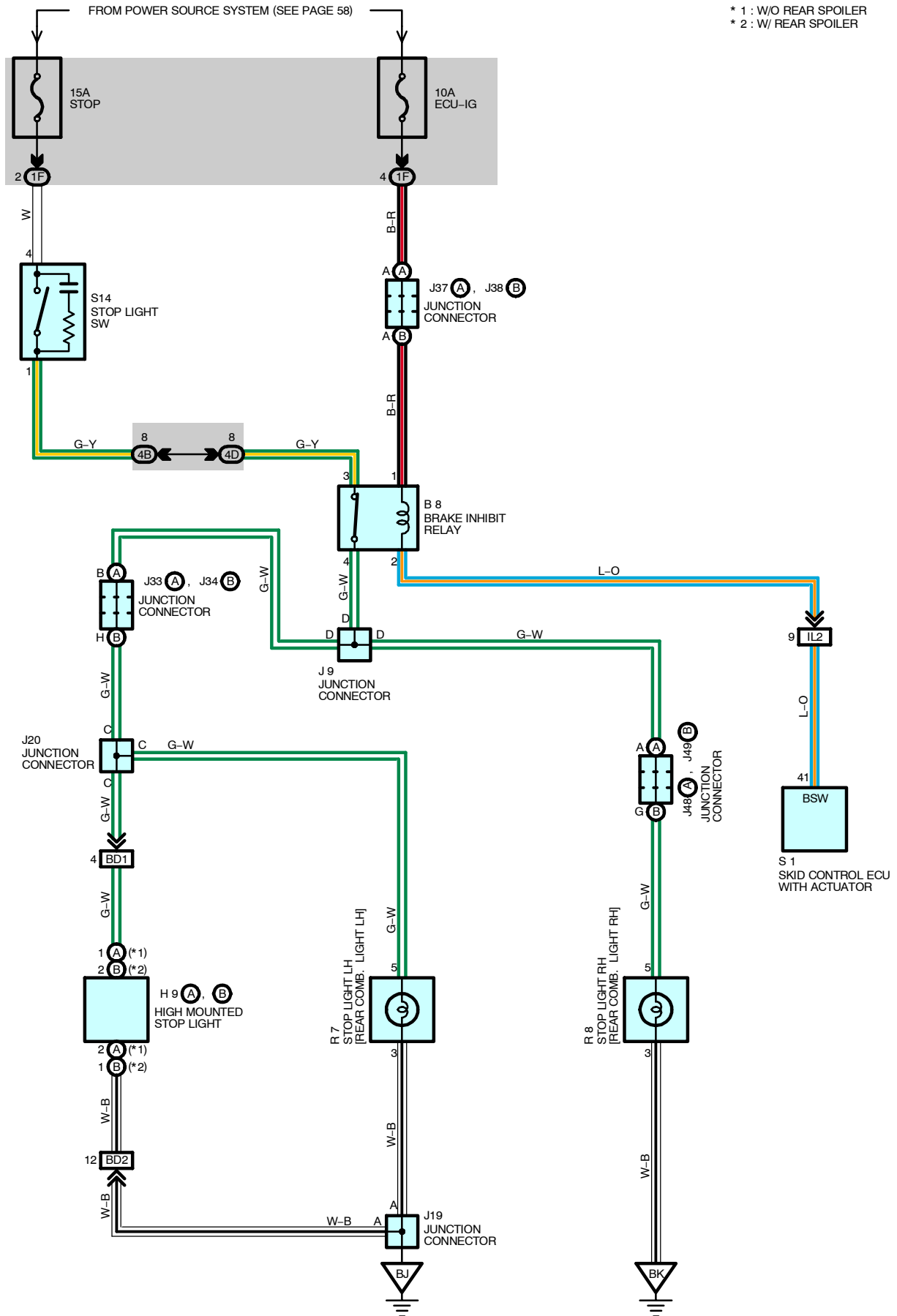
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

STOP LIGHT



SERVICE HINTS

S14 STOP LIGHT SW

4-1 : Closed with the brake pedal depressed

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
B8		38	J33	A	40	R7	43
H9	A	42	J34	B	40	R8	43
	B	42	J37	A	40	S1	37
J9		40	J38	B	40	S14	41
J19		42	J48	A	40		
J20		42	J49	B	40		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
4B	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

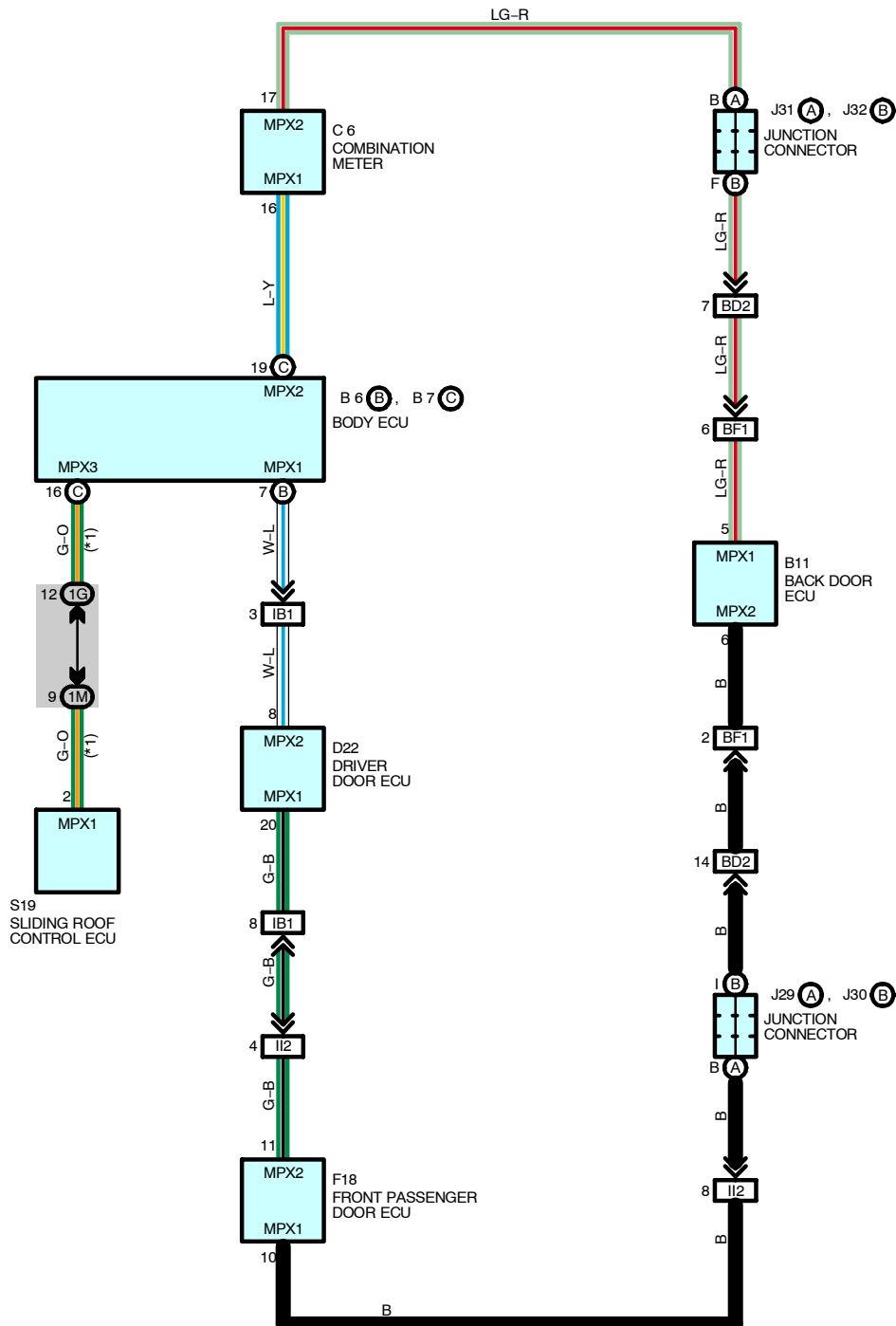
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IL2	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

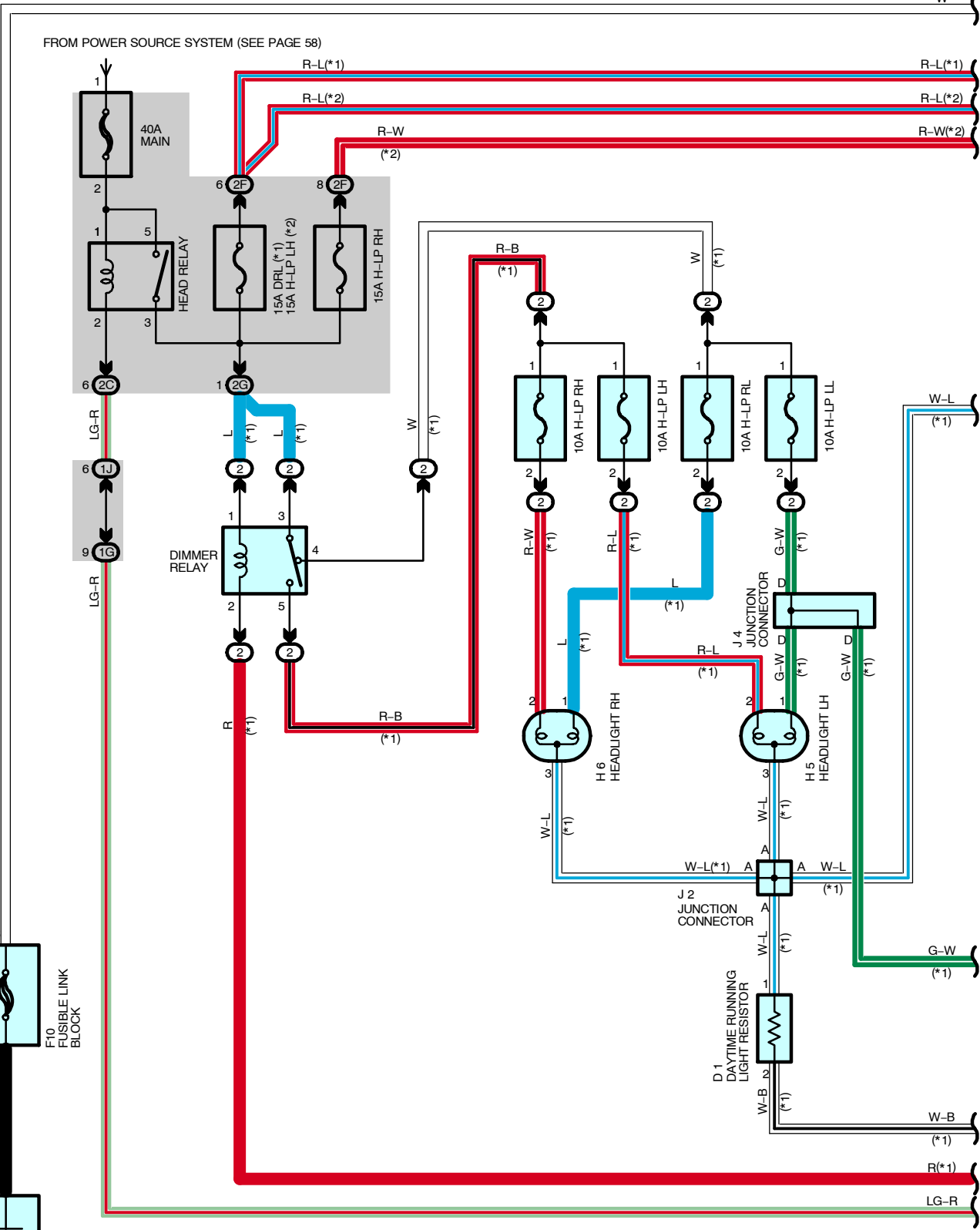
MULTIPLEX COMMUNICATION SYSTEM (COMMUNICATION BUS)

* 1 : W/ MOON ROOF

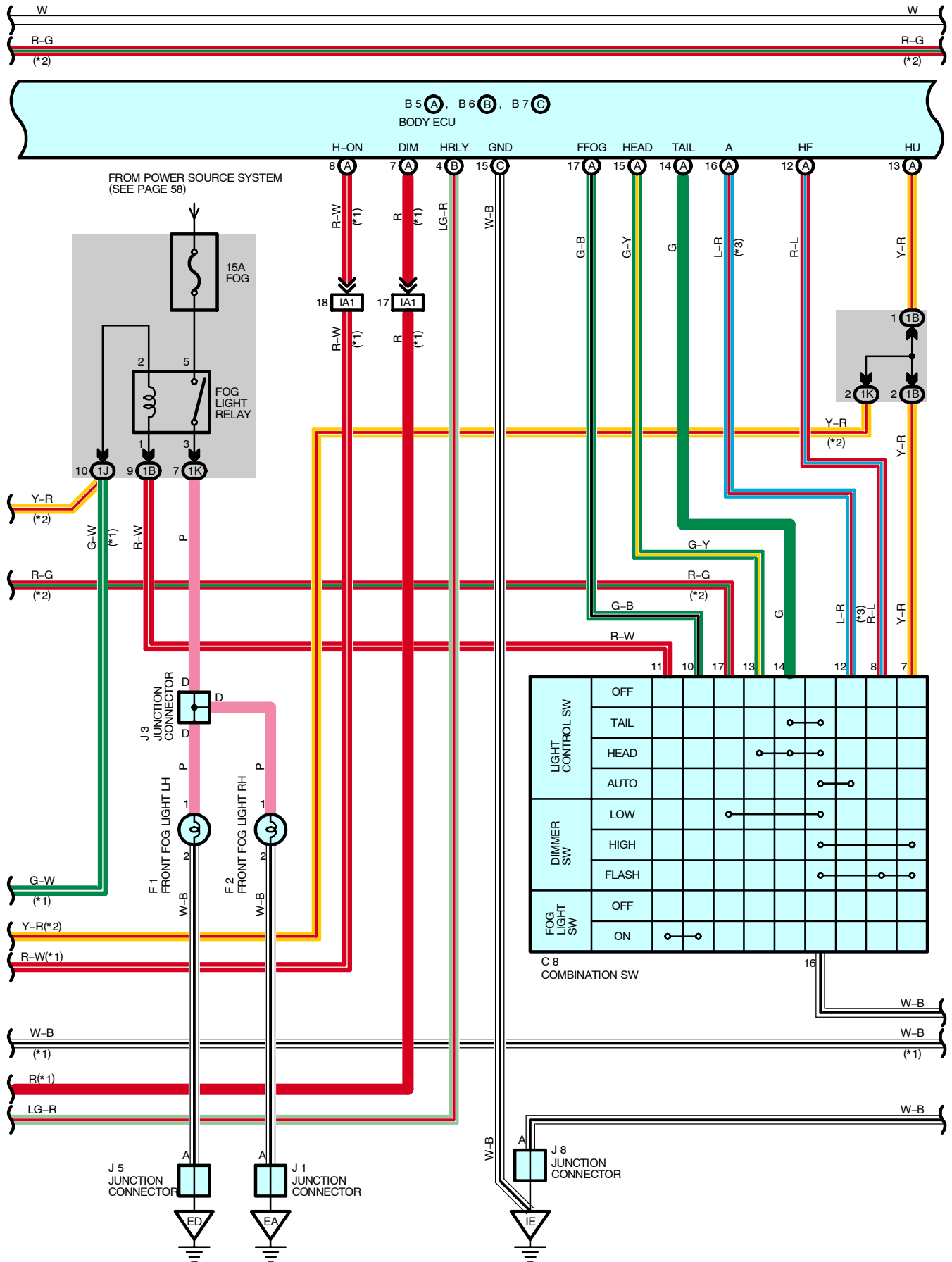


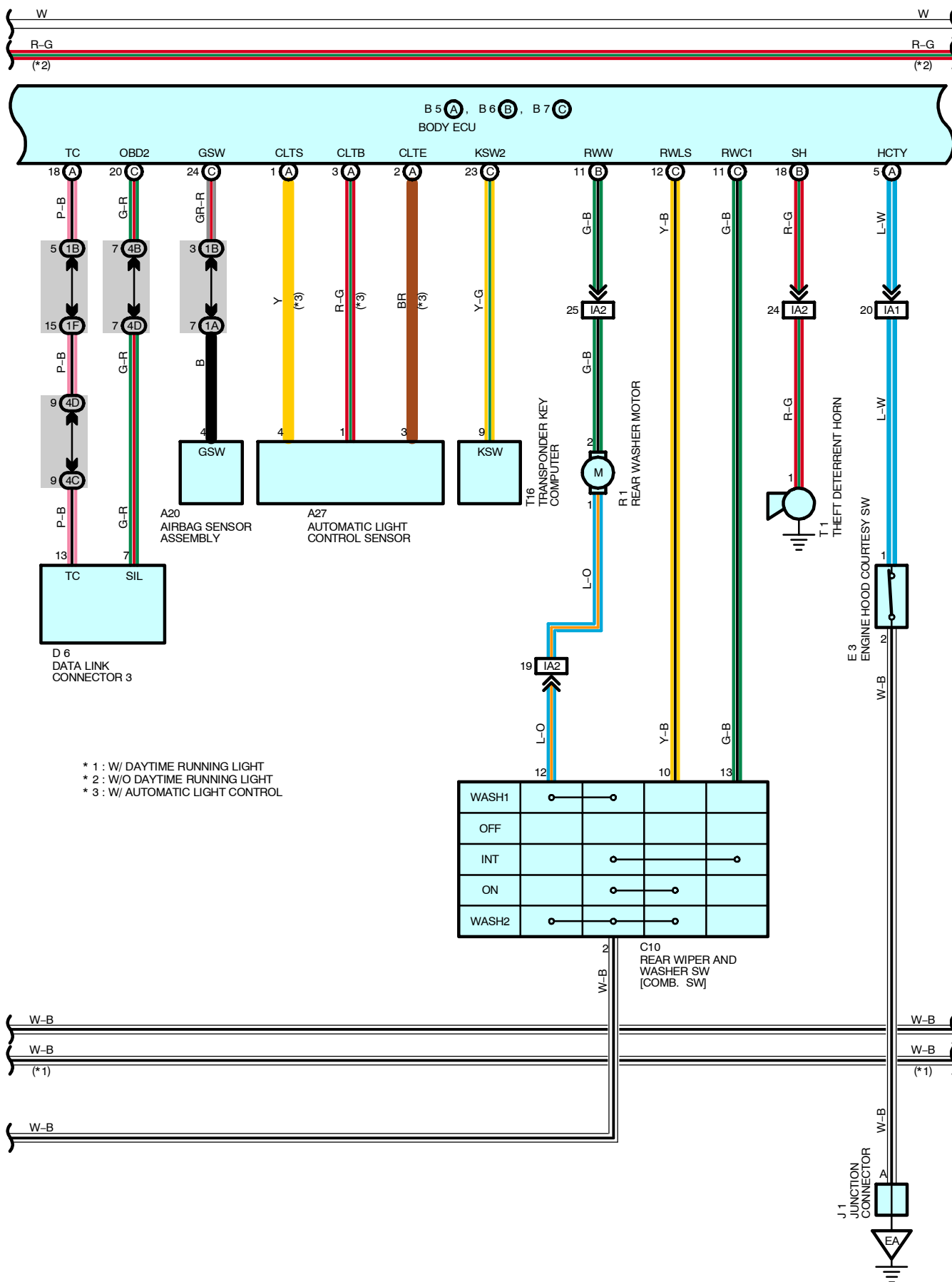
MULTIPLEX COMMUNICATION SYSTEM INCLUDES FOLLOWING SYSTEMS

- * **AUTOMATIC LIGHT CONTROL**
- * **DOOR LOCK CONTROL**
- * **FOG LIGHT**
- * **HEADLIGHT**
- * **HORN**
- * **INTERIOR LIGHT**
- * **KEY REMINDER**
- * **LIGHT AUTO TURN OFF**
- * **POWER WINDOW**
- * **REAR WIPER AND WASHER**
- * **THEFT DETERRENT**
- * **WIRELESS DOOR LOCK CONTROL**

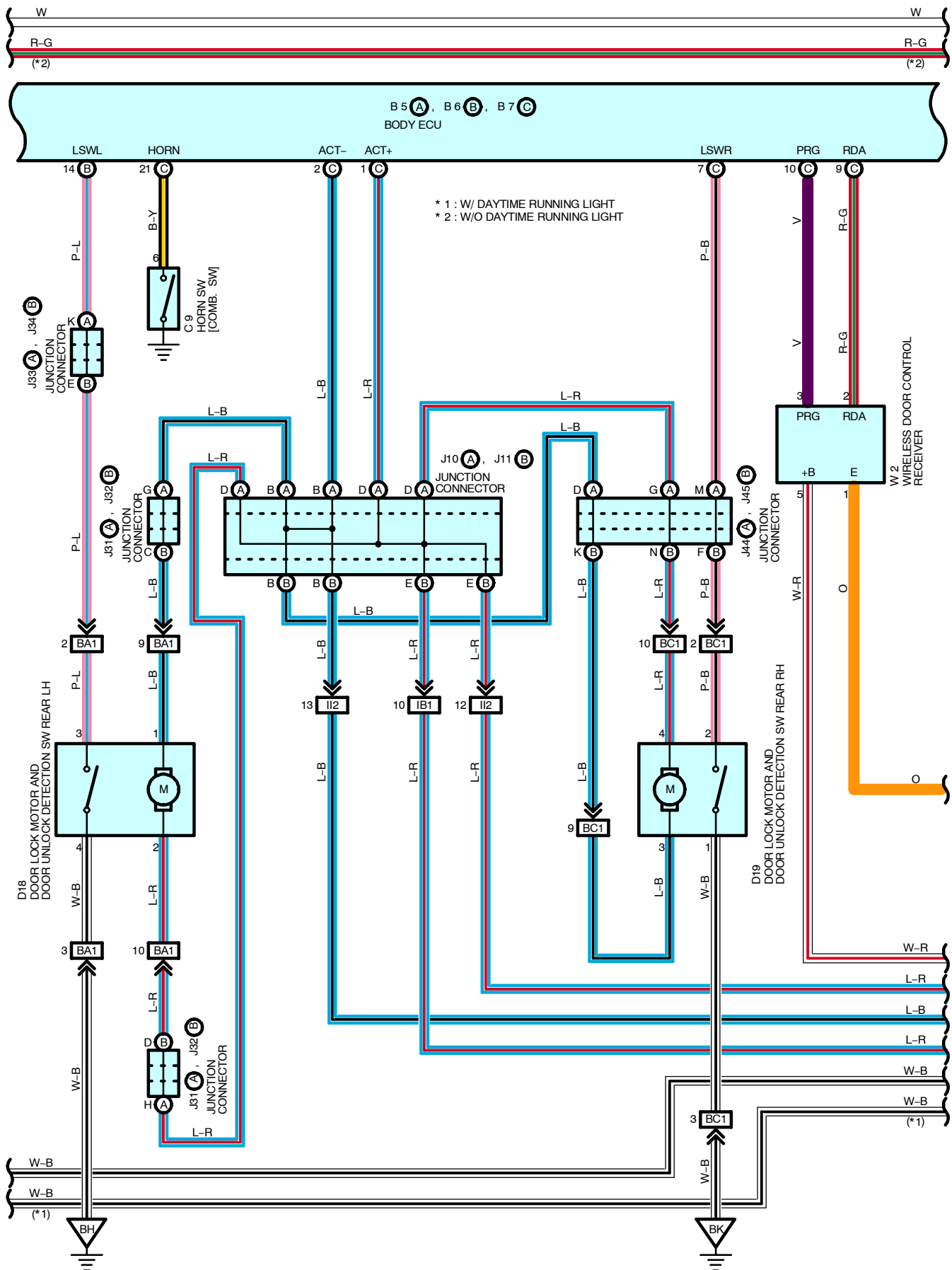


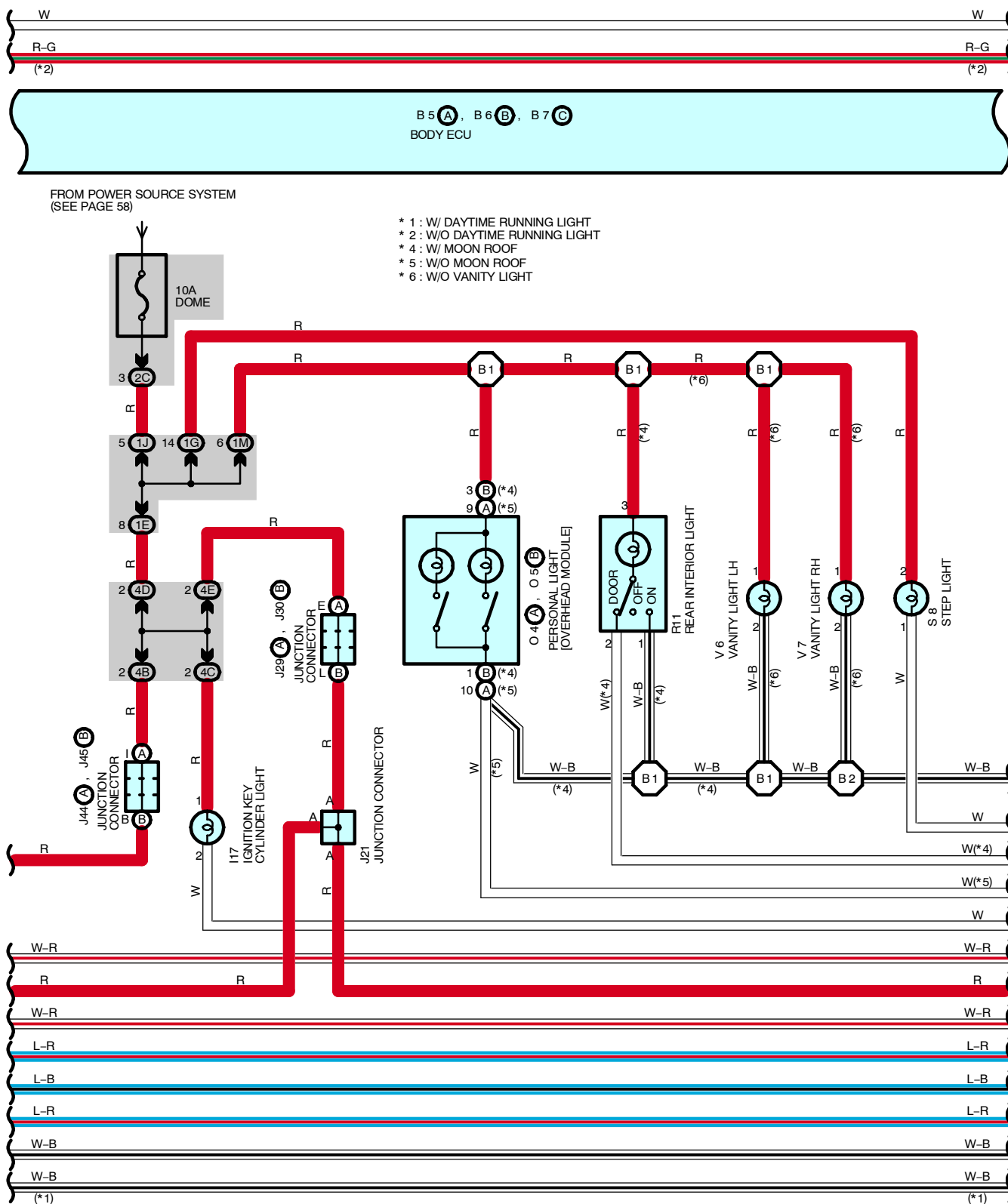
MULTIPLEX COMMUNICATION SYSTEM



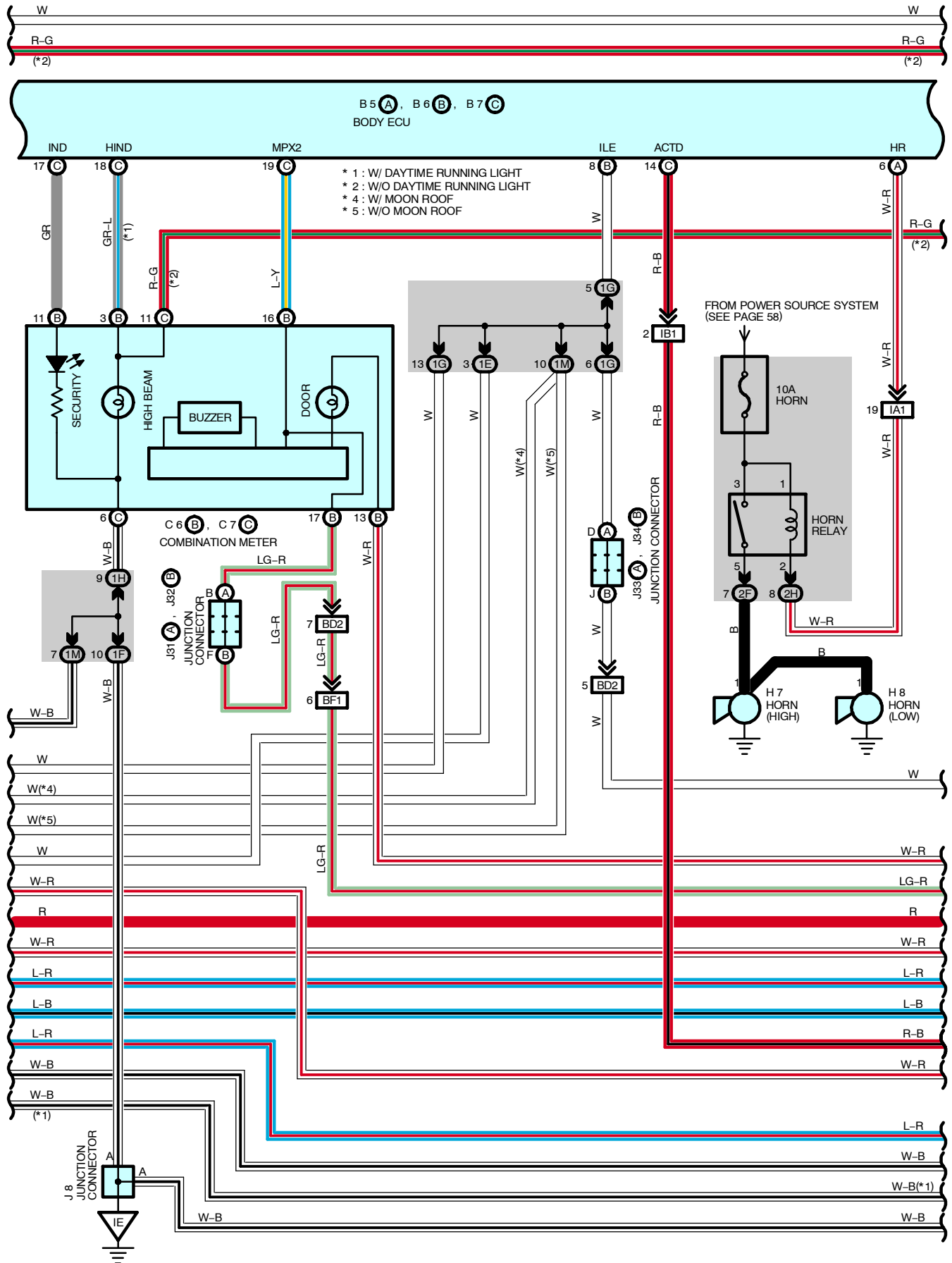


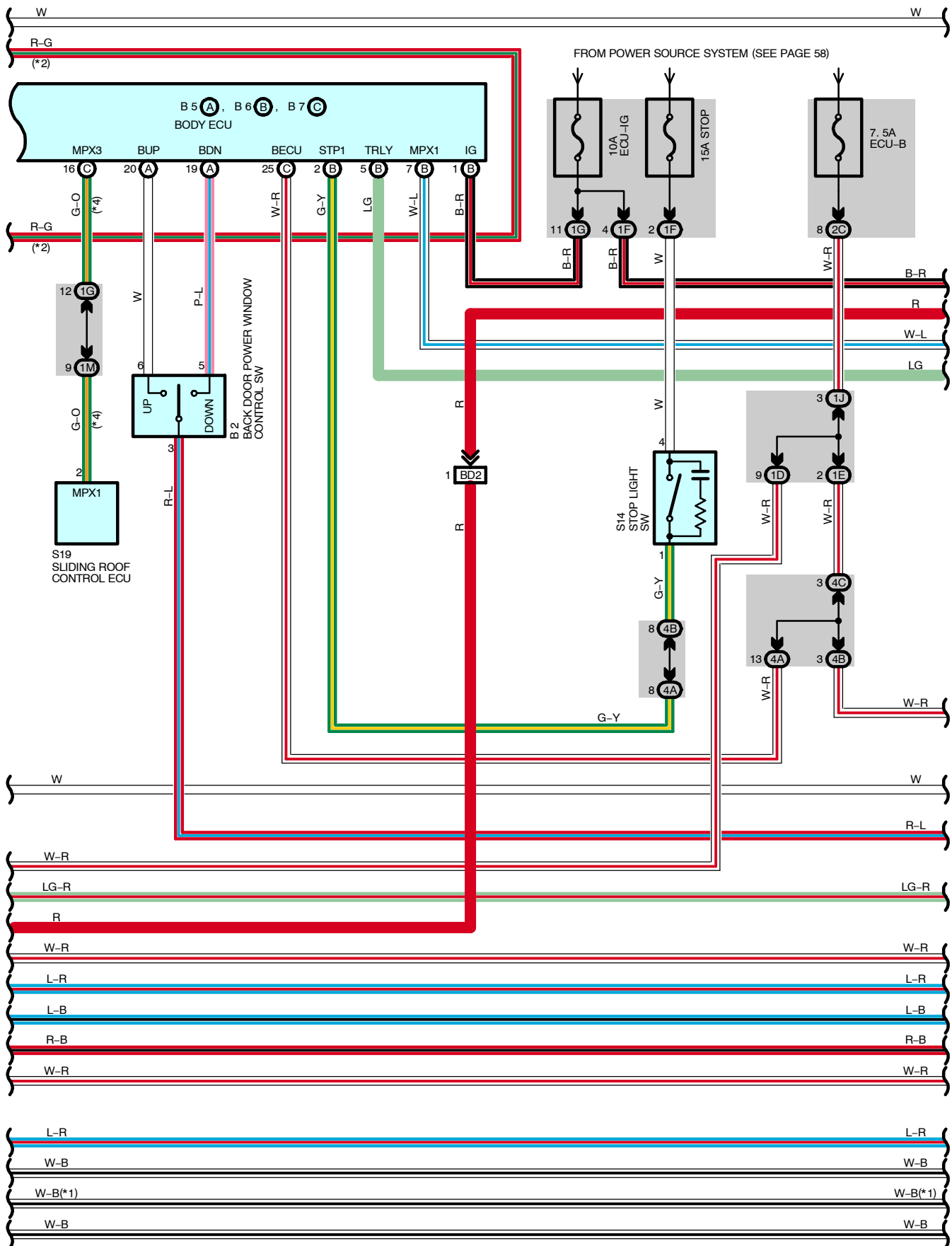




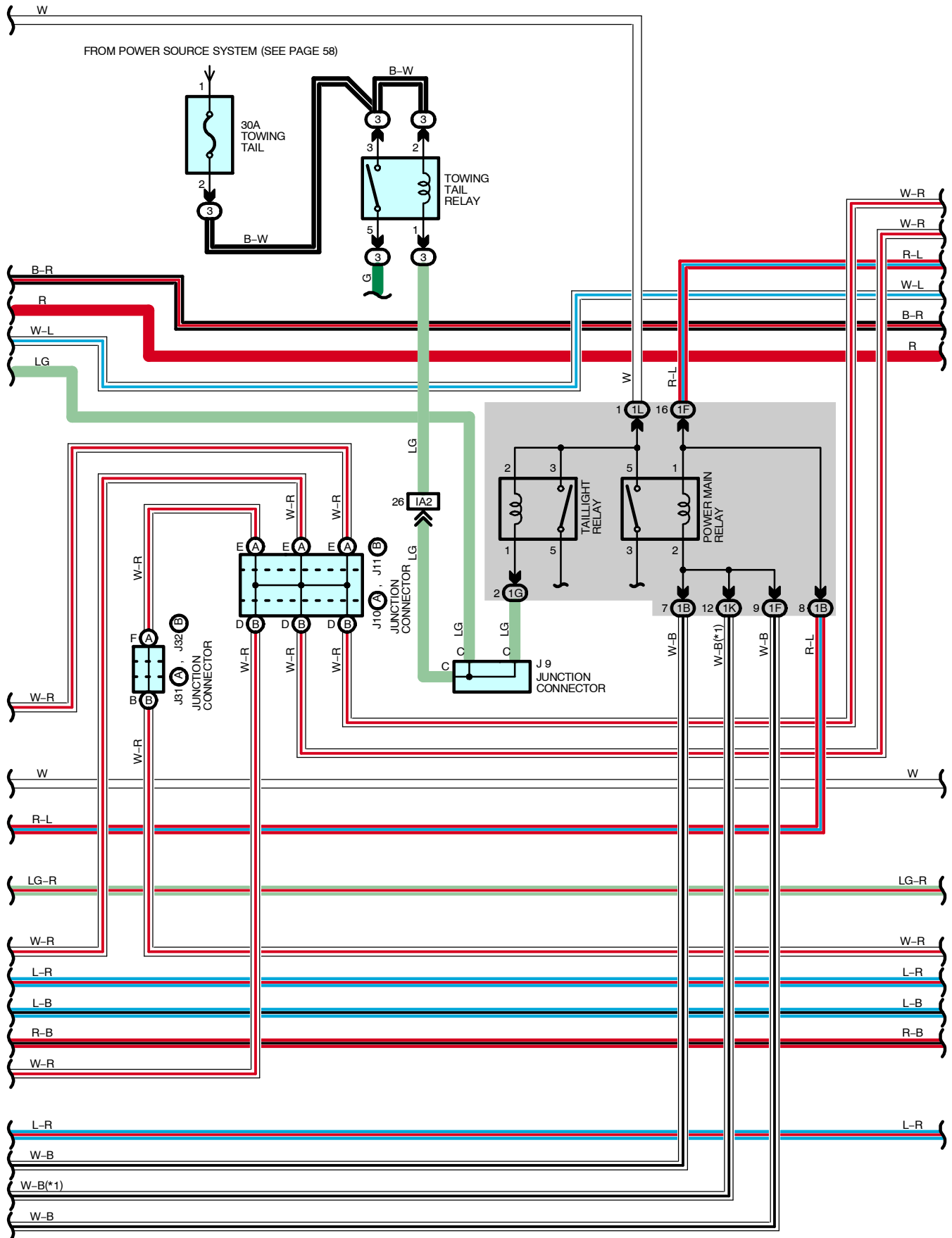


MULTIPLEX COMMUNICATION SYSTEM





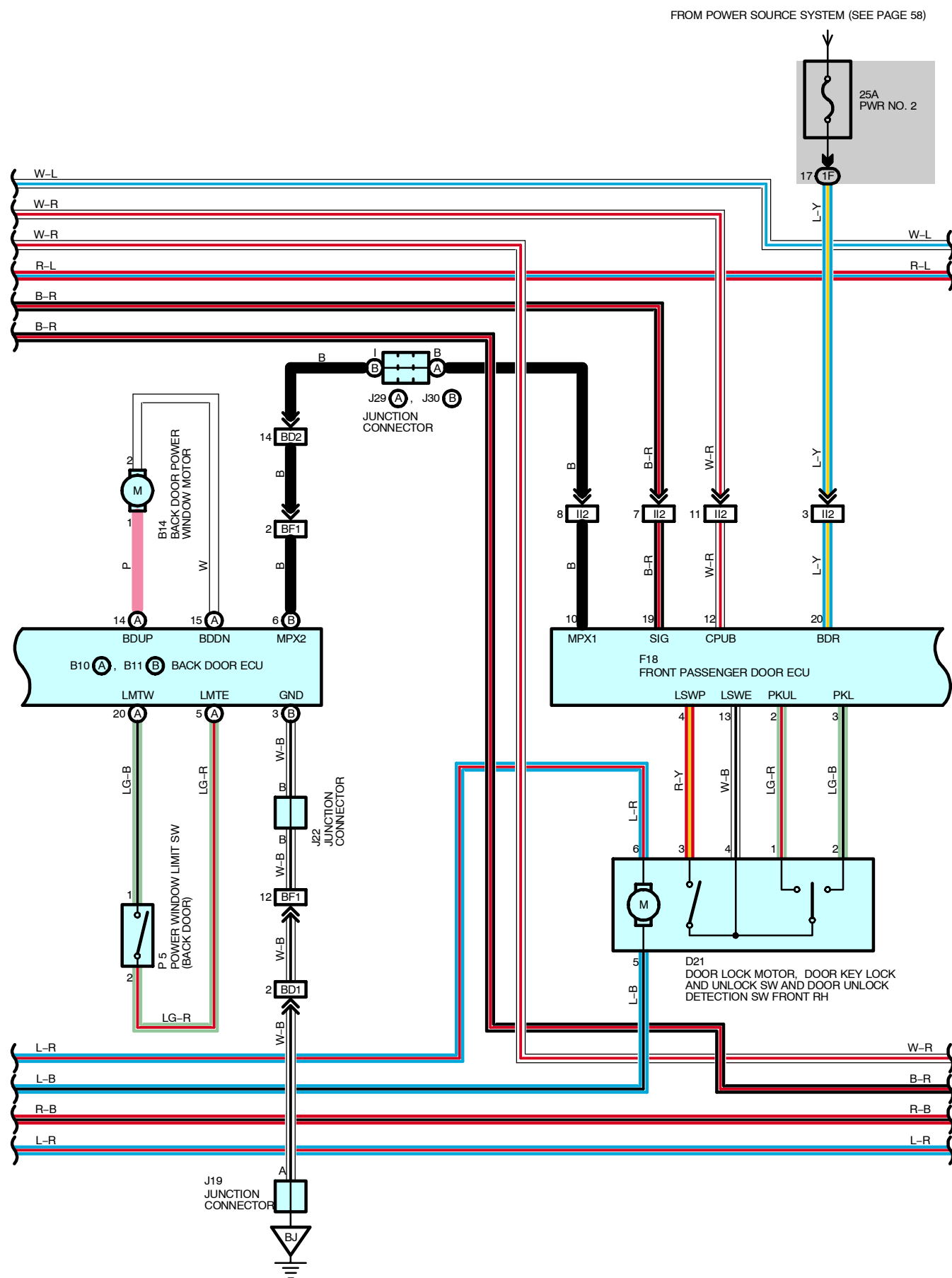
MULTIPLEX COMMUNICATION SYSTEM

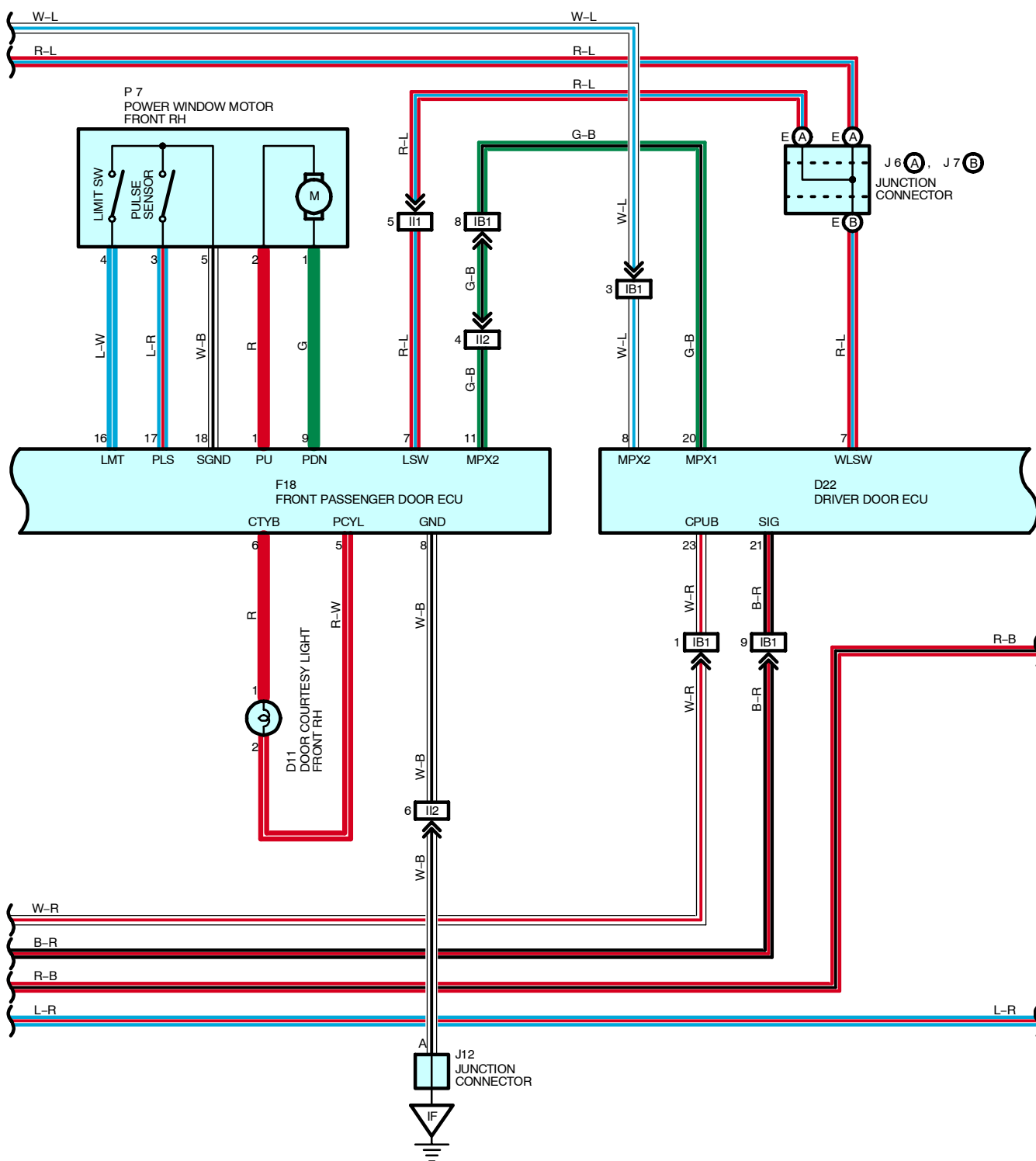


FROM POWER SOURCE SYSTEM (SEE PAGE 58)

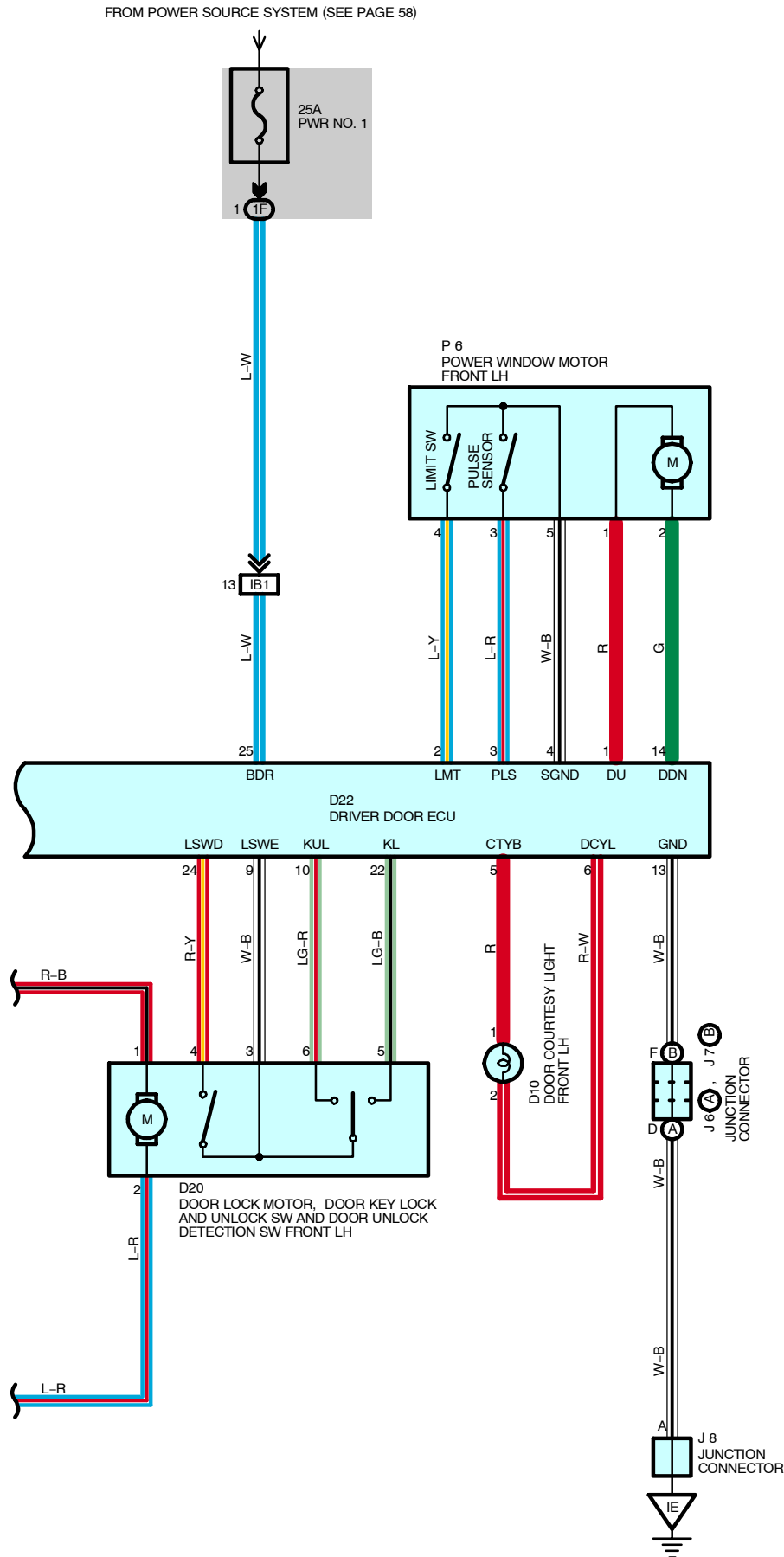


MULTIPLEX COMMUNICATION SYSTEM





MULTIPLEX COMMUNICATION SYSTEM



SYSTEM OUTLINE

This multiplex communication system is consisted of the BODY ECU, driver door ECU, passenger door ECU, back door ECU, combination meter and sliding roof control ECU.

SERVICE HINTS

B6 (B), B7 (C) BODY ECU

- (B) 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- (B) 3-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
- (B) 9-GROUND : Always approx. **12** volts
- (C)25-GROUND : Always approx. **12** volts
- (C)15-GROUND : Always continuity

D22 DRIVER DOOR ECU

- 21-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- 23-GROUND : Always approx. **12** volts
- 25-GROUND : Always approx. **12** volts
- 13-GROUND : Always continuity

F18 FRONT PASSENGER DOOR ECU

- 19-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- 12-GROUND : Always approx. **12** volts
- 20-GROUND : Always approx. **12** volts
- 8-GROUND : Always continuity

B11 (B) BACK DOOR ECU

- (B) 4-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- (B) 2-GROUND : Always approx. **12** volts
- (B) 1-GROUND : Always approx. **12** volts
- (B) 3-GROUND : Always continuity

MULTIPLEX COMMUNICATION SYSTEM

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A20	38	D22	42	J33	A 40
A27	38	E3	36	J34	B 40
B2	38	F1	36	J37	40
B5	A 38	F2	36	J43	40
B6	B 38	F10	36	J44	A 40
B7	C 38	F18	42	J45	B 40
B9	42	G4	39	J46	A 40
B10	A 42	G5	39	J47	B 40
B11	B 42	H5	36	L2	43
B12	42	H6	36	O4	A 43
B13	42	H7	36	O5	B 43
B14	42	H8	36	P2	41
C6	B 38	I17	39	P3	43
C7	C 38	J1	37	P4	43
C8	38	J2	37	P5	43
C9	38	J3	37	P6	43
C10	38	J4	37	P7	43
D1	36	J5	37	P8	43
D6	39	J6	A 40	P9	43
D8	42	J7	B 40	R1	37
D9	42	J8	40	R11	43
D10	42	J9	40	R16	43
D11	42	J10	A 40	S8	41
D12	42	J11	B 40	S14	41
D13	42	J12	40	S19	43
D14	42	J19	42	T1	37
D15	42	J21	42	T16	41
D16	42	J22	42	U1	41
D17	42	J28	37	V6	43
D18	42	J29	A 40	V7	43
D19	42	J30	B 40	W1	37
D20	42	J31	A 40	W2	41
D21	42	J32	B 40		

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D		
1E		
1F		
1G		
1H		
1J		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2G		
2H		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4D		
4E		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
II1	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
II2		
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

 : GROUND POINTS

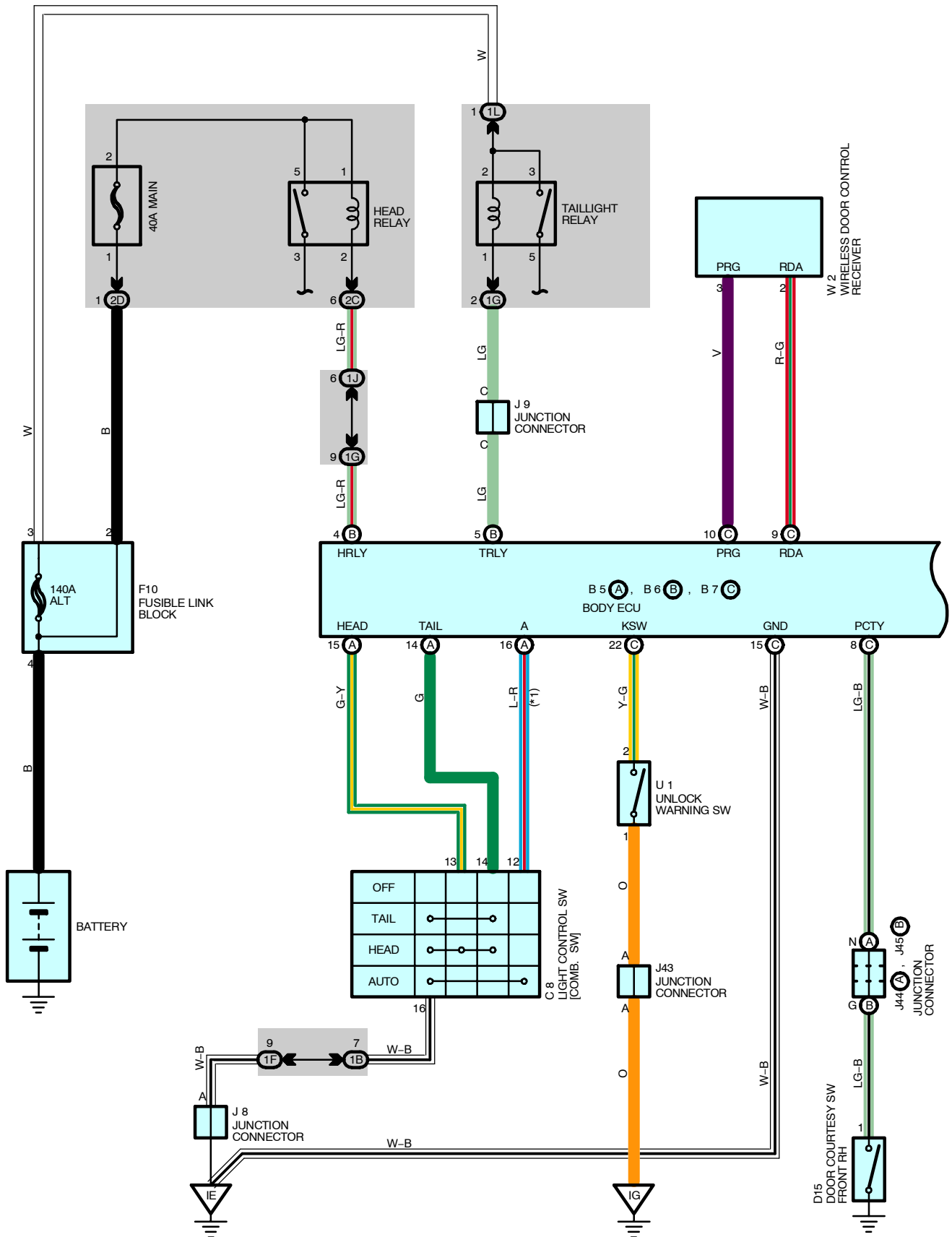
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
IG	48	Right Kick Panel
BH	52	Left Side of Center Pillar
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	52	Roof Wire	B2	52	Roof Wire

LIGHT AUTO TURN OFF

* 1 : W/ AUTOMATIC LIGHT CONTROL



LIGHT AUTO TURN OFF

SYSTEM OUTLINE

With the light control SW at TAIL position, and the ignition SW turned to ACC or OFF position from ON or ST position, the tail lights will be turned off when the driver's door is opened.

When the ignition SW is turned to ACC or OFF position from ON or ST position with the headlights on, the headlights will be turned off 30 seconds after all the doors are closed.

The light goes off immediately when all the doors are locked using the wireless door lock.

SERVICE HINTS

HEAD RELAY

5-3 : Closed with the light control SW at **HEAD** position or the dimmer SW at **FLASH** position

Closed with the engine running and the parking brake pedal released (w/ daytime running light)

C8 LIGHT CONTROL SW [COMB. SW]

13-16 : Closed with the light control SW at **HEAD** position

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position

D14 DOOR COURTESY SW FRONT LH

1-GROUND : Continuity with the front LH door open

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B5	A 38	D16	42	J32	B 40
B6	B 38	D17	42	J33	A 40
B7	C 38	F10	36	J34	B 40
B9	42	J8	40	J37	40
B10	A 42	J9	40	J43	40
B11	B 42	J10	40	J44	A 40
C8	38	J19	42	J45	B 40
D8	42	J22	42	U1	41
D9	42	J29	A 40	W2	41
D14	42	J30	B 40		
D15	42	J31	A 40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		

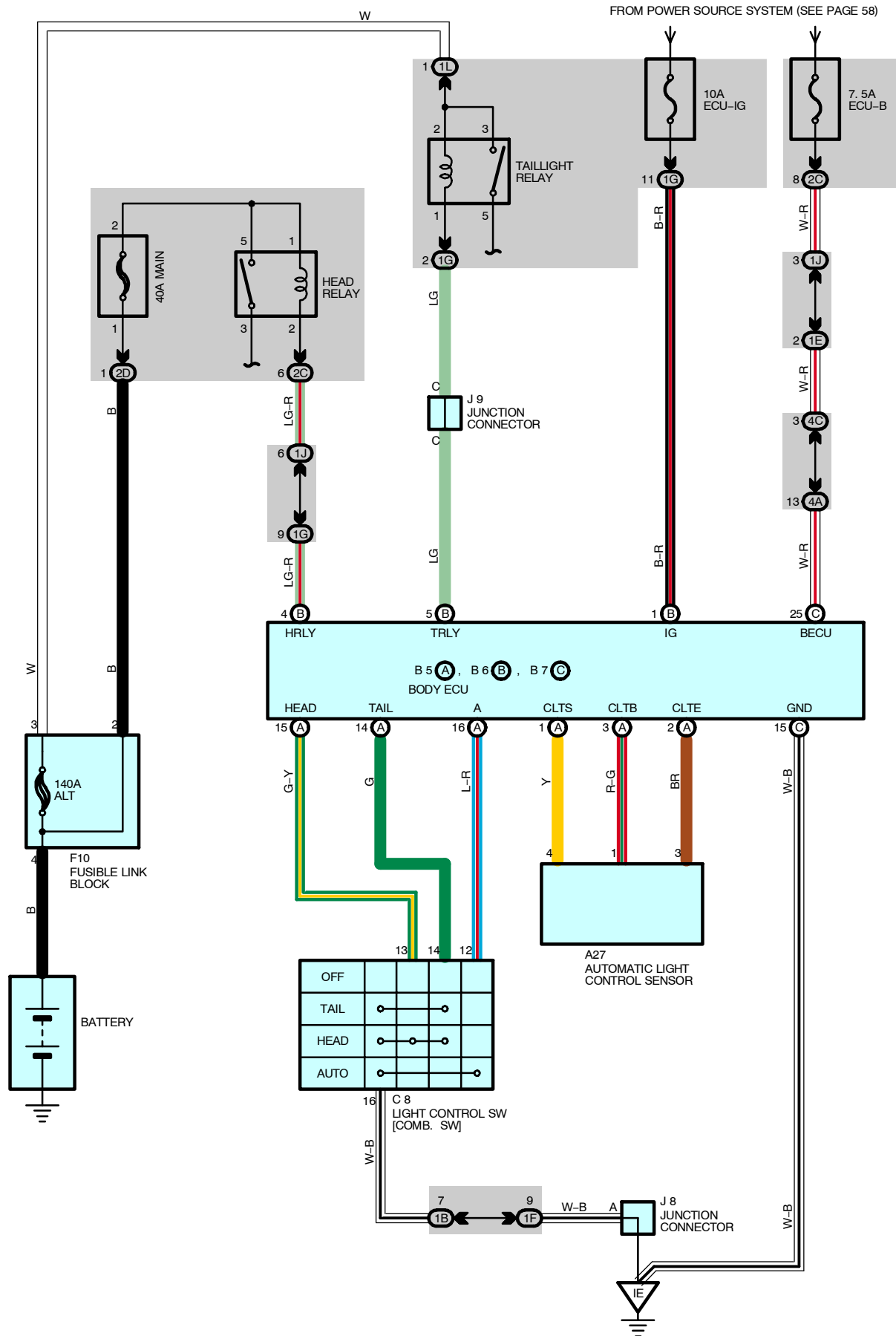
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

**: GROUND POINTS**

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BJ	52	Left Side of Rear Quarter Panel

AUTOMATIC LIGHT CONTROL



SYSTEM OUTLINE

Automatic light control is designed for turning taillights and headlights on/off automatically according to the surroundings brightness when the light control SW is on AUTO position under the condition that the ignition SW is on.

AUTOMATIC LIGHT CONTROL OPERATION

When the surrounding darkens (Darker than the value set for taillight lighting), taillight is automatically turned on under the condition that the ignition SW is on with the light control SW being on AUTO position. When further darkens (Darker than the value set for headlight lighting), the headlight is automatically turned on.

In addition, if the brightness reaches the value set for turning the each light off, each light is turned off.

SERVICE HINTS

C8 LIGHT CONTROL SW [COMB. SW]

14-16 : Closed with the light control SW at **TAIL** or **HEAD** position

13-16 : Closed with the light control SW at **HEAD** position

12-16 : Closed with the light control SW at **AUTO** position

B6 (B), B7 (C) BODY ECU

(B) 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position

(C)25-GROUND : Always approx. **12** volts

(C)15-GROUND : Always continuity

: PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
A27		38	B7	C	38	J8	40
B5	A	38	C8		38	J9	40
B6	B	38	F10		36		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel



SYSTEM OUTLINE

1. SEAT BELT WARNING

In case the driver has not fastened the seat belt when the ignition SW is turned ON, a warning light flashes, and the warning buzzer goes on.

2. KEY REMINDER

In case the driver's door is opened with the key in the key cylinder and the ignition SW at ACC or OFF position, a warning buzzer goes on.

SERVICE HINTS

B16 (A), (B) BUCKLE SW LH

(A) 1-(A) 2, (B) 5-(B) 6 : Open with the driver's seat belt in use

D14 DOOR COURTESY SW FRONT LH

1-GROUND : Closed with the front LH door open

U1 UNLOCK WARNING SW

1-2 : Closed with the ignition key in cylinder

C6 COMBINATION METER

10-GROUND : Always continuity

6-GROUND : Continuity with the driver's seat belt not use

13-GROUND : Always approx. 12 volts

1-GROUND : Approx. 12 volts with the ignition SW at ON position

B6 (B), B7 (C) BODY ECU

(C)25-GROUND : Always approx. 12 volts

(C)15-GROUND : Always continuity

(C)22-GROUND : Continuity with the ignition key in cylinder

(B)15-GROUND : Continuity with the front LH door open

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6	B 38	J8	40	J33	A 40
B7	C 38	J9	40	J34	B 40
B16	A 44	J21	42	J43 40	
	B 42	J25	44	J44	A 40
B17	44	J26	44	J45	B 40
C6	38	J27	44	S20	44
D14	42	J31	A 40	U1	41
I19	39	J32	B 40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		
4D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BI1	54	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BK1	54	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

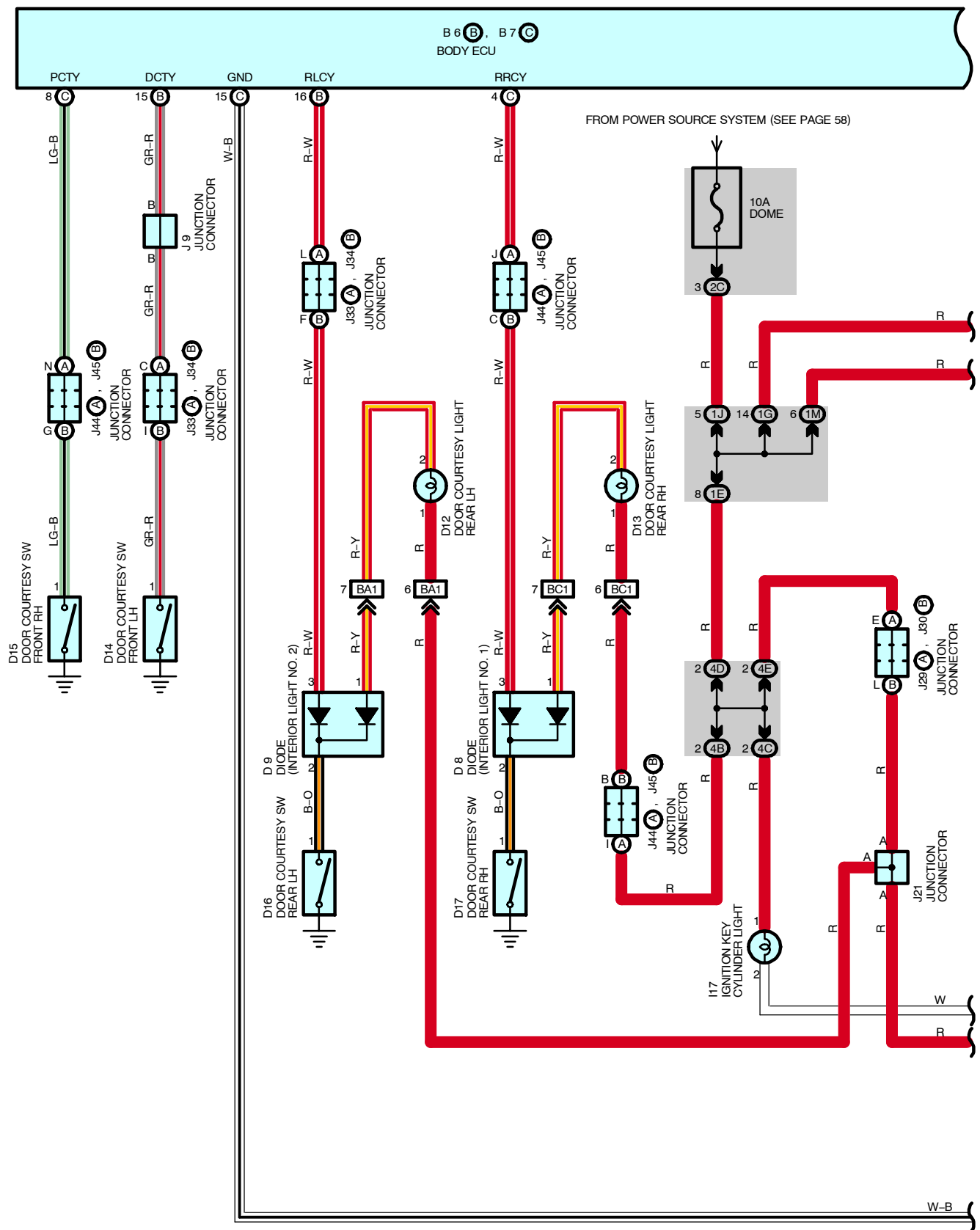
KEY REMINDER AND SEAT BELT WARNING

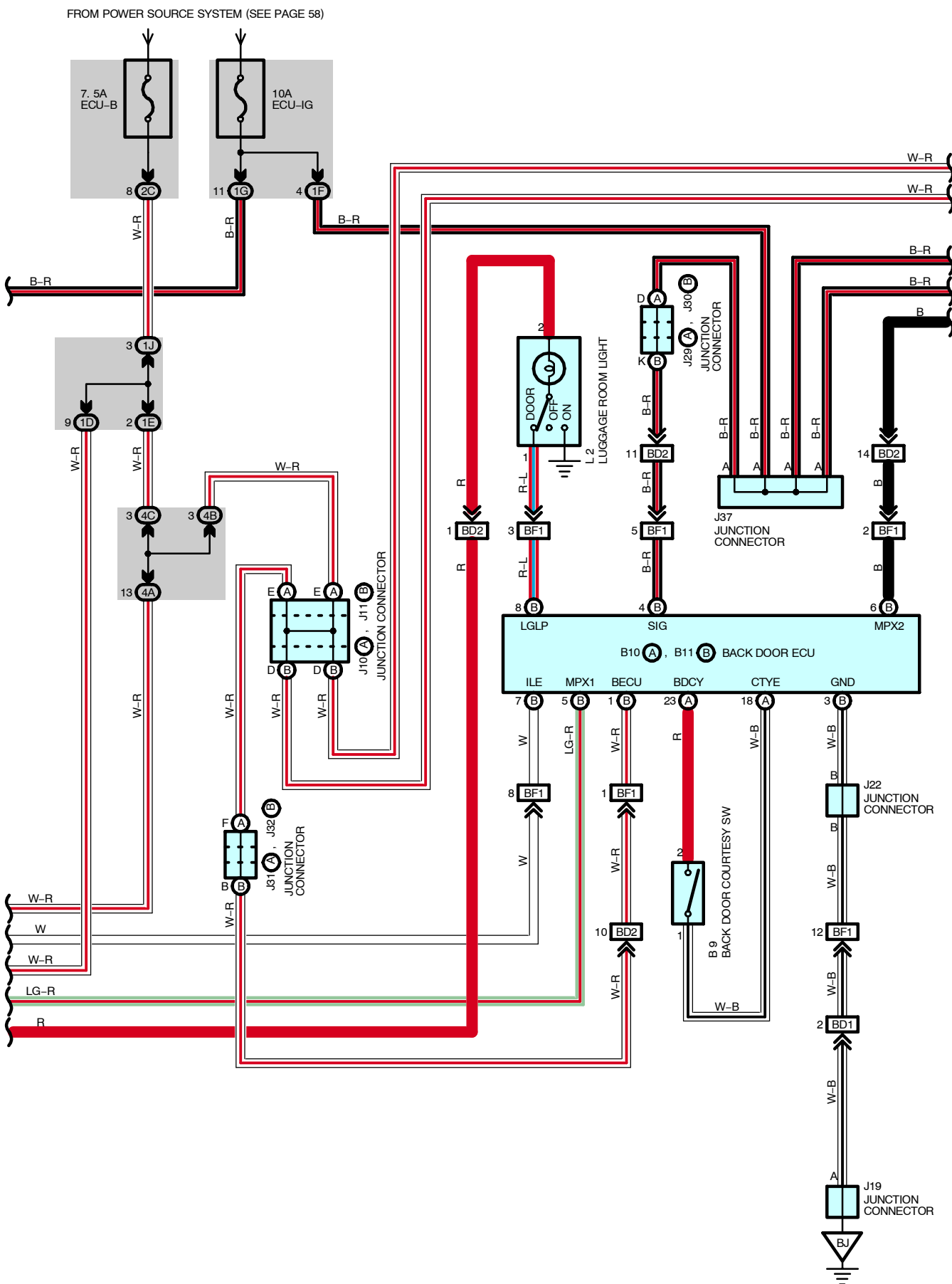


: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BH	52	Left Side of Center Pillar
BK	52	Right Side of Center Pillar

INTERIOR LIGHT







INTERIOR LIGHT

SERVICE HINTS

D14, D15, D16, D17 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-GROUND : Closed with the door open

B9 BACK DOOR COURTESY SW

2-1 : Closed with the door open

B6 (B), B7 (C) BODY ECU

(B) 1-GROUND : Approx. 12 volts with the ignition SW at **ON** position

(C)15-GROUND: Always continuity

(C)25-GROUND: Always approx. 12 volts

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B6 B	38	D17	42	J30 B	40
B7 C	38	D22	42	J31 A	40
B9	42	F18	42	J32 B	40
B10 A	42	I17	39	J33 A	40
B11 B	42	J6 A	40	J34 B	40
C6	38	J7 B	40	J37	40
D8	42	J8	40	J44 A	40
D9	42	J9	40	J45 B	40
D10	42	J10 A	40	L2	43
D11	42	J11 B	40	O4 A	43
D12	42	J12	40	O5 B	43
D13	42	J19	42	R11	43
D14	42	J21	42	S8	41
D15	42	J22	42	V6	43
D16	42	J29 A	40	V7	43

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4D		
4E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

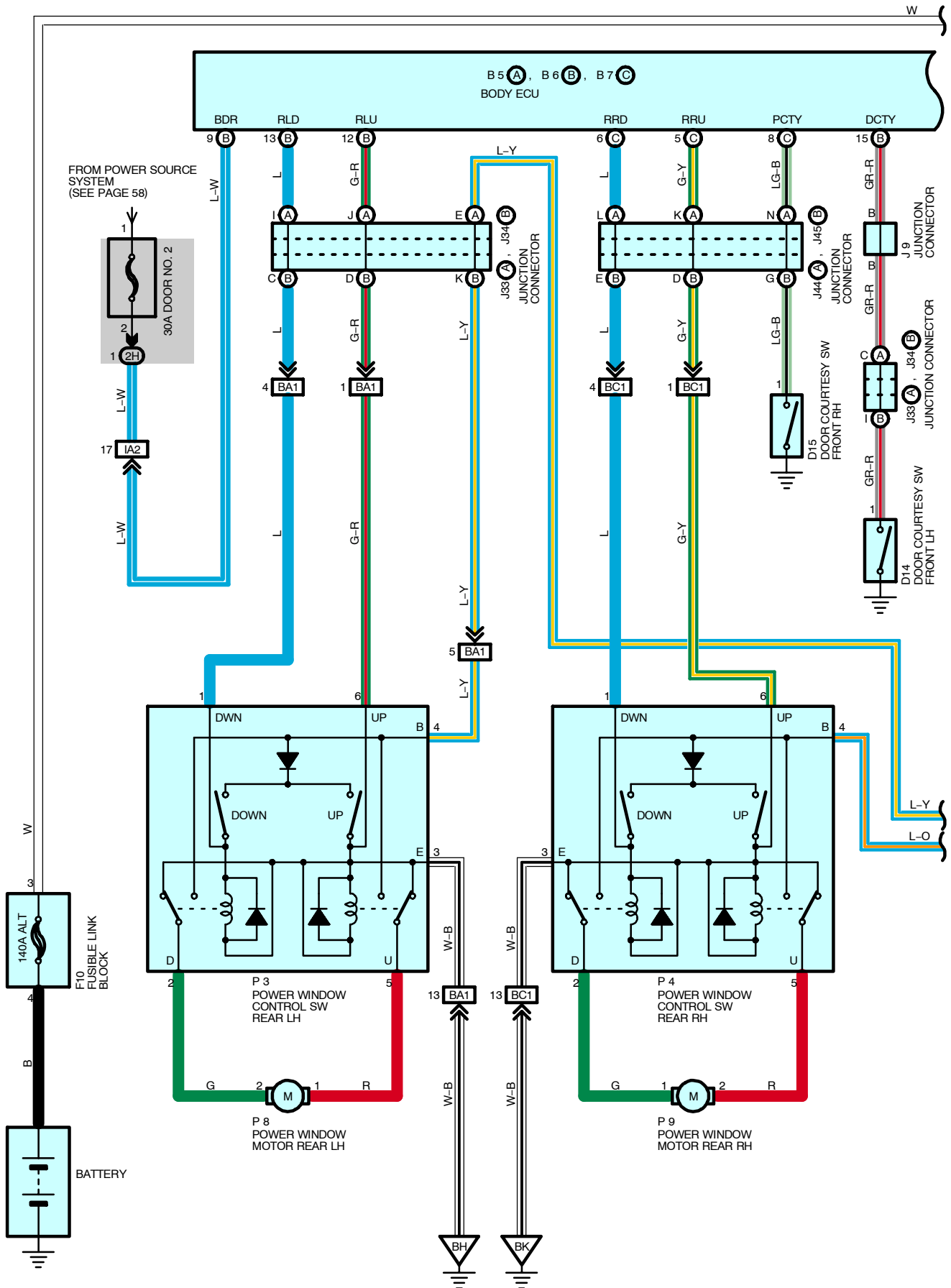
**: GROUND POINTS**

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
BJ	52	Left Side of Rear Quarter Panel

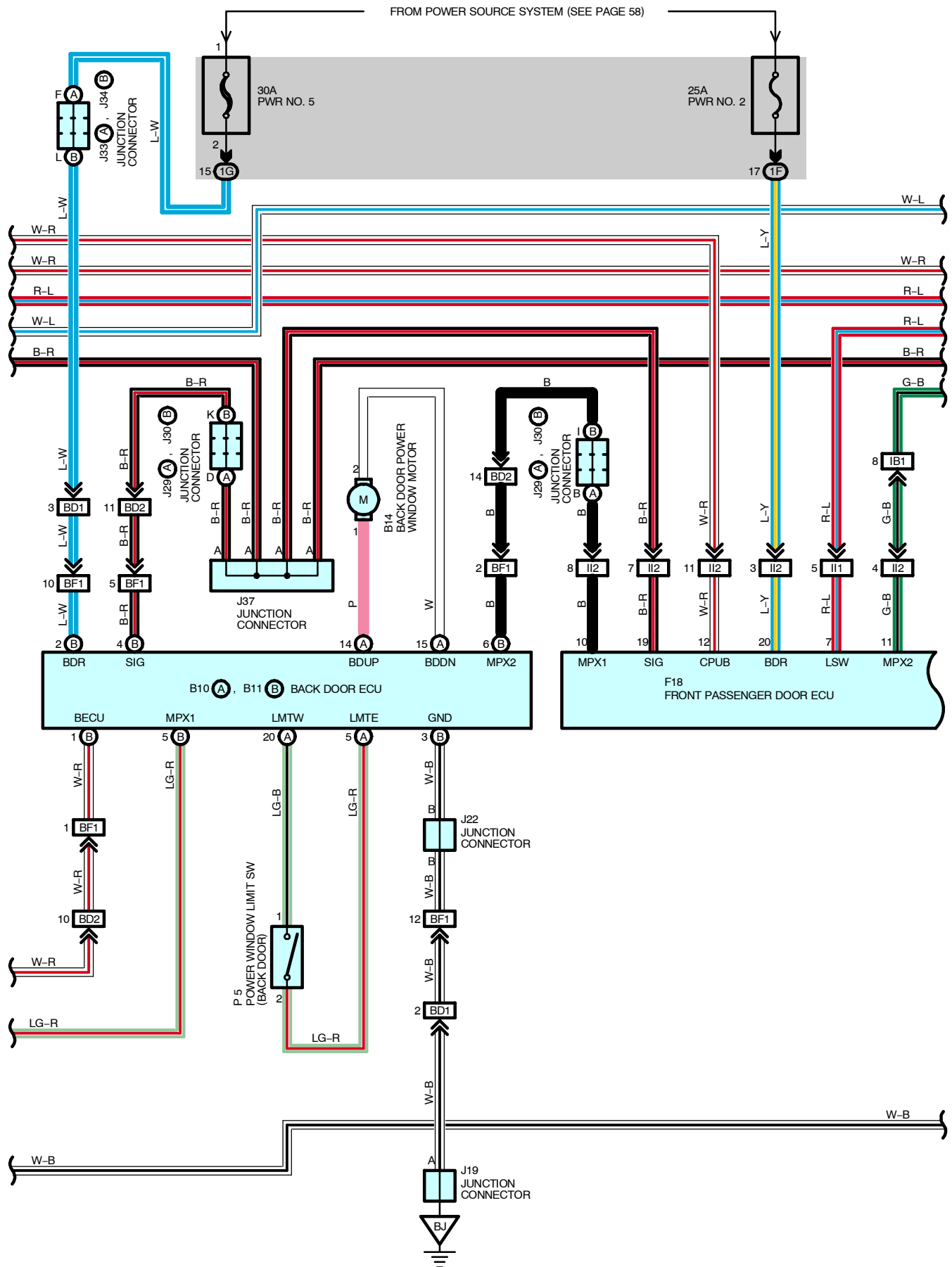
**: SPLICE POINTS**

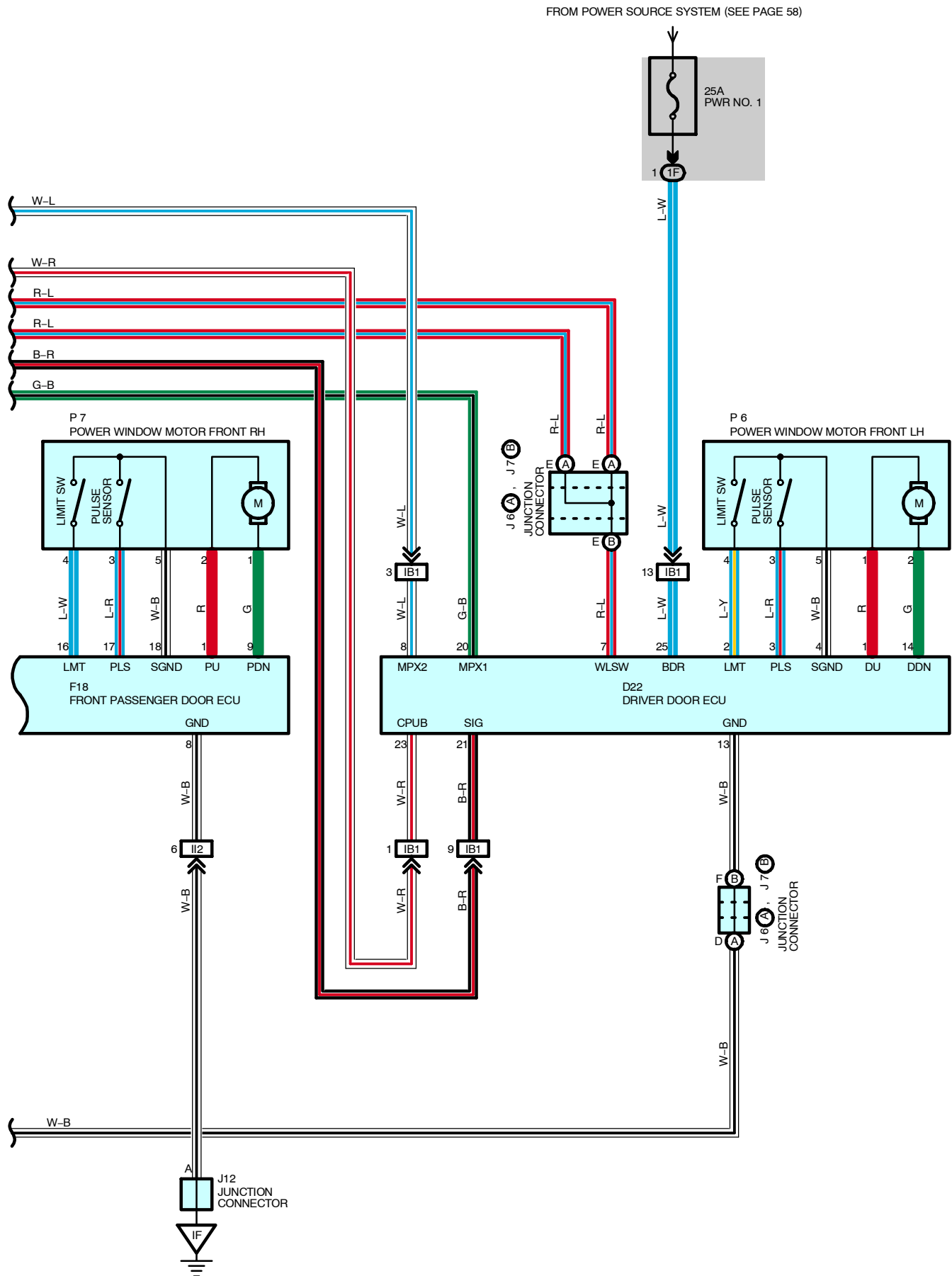
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B1	52	Roof Wire	B2	52	Roof Wire

POWER WINDOW



POWER WINDOW





POWER WINDOW

SYSTEM OUTLINE

The power window motor will operate when the power window SW, remote control SW, or the key-linked SW is operated.

1. POWER WINDOW SW MANUAL / AUTOMATIC OPERATION

When the ignition SW is turned ON, or during key-off operation stand-by mode, the power window can be operated by the power window SW.

2. REMOTE CONTROL SW MANUAL / AUTOMATIC OPERATION

When the ignition SW is turned ON, or during key-off operation stand-by mode, the power window can be operated by the remote control SW. The front passenger, rear left, right windows can be operated according to the remote control signals from the DRIVER ECU.

3. KEY-OFF OPERATION

With all the doors closed, within 43 seconds after the ignition switch has been turned to OFF from ON, the power window can be operated. However, if the front door is opened, the power window cannot be operated.

4. JAM PROTECTION FUNCTION

When load is detected, the power window motor is rotated to the opposite direction.

The driver's seat and front passenger seat power windows have this function.

5. BACK DOOR KEY OPERATION SW

When the back door key SW is operated to LOCK or UNLOCK side for more than approximately 0.75 seconds, the back door window can be opened/closed manually.

SERVICE HINTS

B6 (B), B7 (C) BODY ECU

(B) 1-GROUND : Approx. 12 volts with the ignition SW at ON position

(B) 9-GROUND : Always approx. 12 volts

(C)25-GROUND : Always approx. 12 volts

(C)15-GROUND : Always continuity

D22 DRIVER DOOR ECU

21-GROUND : Approx. 12 volts with the ignition SW at ON position

23-GROUND : Always approx. 12 volts

25-GROUND : Always approx. 12 volts

13-GROUND : Always continuity

F18 FRONT PASSENGER DOOR ECU

19-GROUND : Approx. 12 volts with the ignition SW at ON position

12-GROUND : Always approx. 12 volts

20-GROUND : Always approx. 12 volts

8-GROUND : Always continuity

B11 (B) BACK DOOR ECU

(B) 4-GROUND : Approx. 12 volts with the ignition SW at ON position

(B) 2-GROUND : Always approx. 12 volts

(B) 1-GROUND : Always approx. 12 volts

(B) 3-GROUND : Always continuity

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B2		38	J7	B	40	J37		40
B5	A	38	J8		40	J44	A	40
B6	B	38	J9		40	J45	B	40
B7	C	38	J10	A	40	J46	A	40
B10	A	42	J11	B	40	J47	B	40
B11	B	42	J12		40	P3		43
B14		42	J19		42	P4		43
C6		38	J22		42	P5		43
D14		42	J29	A	40	P6		43
D15		42	J30	B	40	P7		43
D22		42	J31	A	40	P8		43
F10		36	J32	B	40	P9		43
F18		42	J33	A	40			
J6	A	40	J34	B	40			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

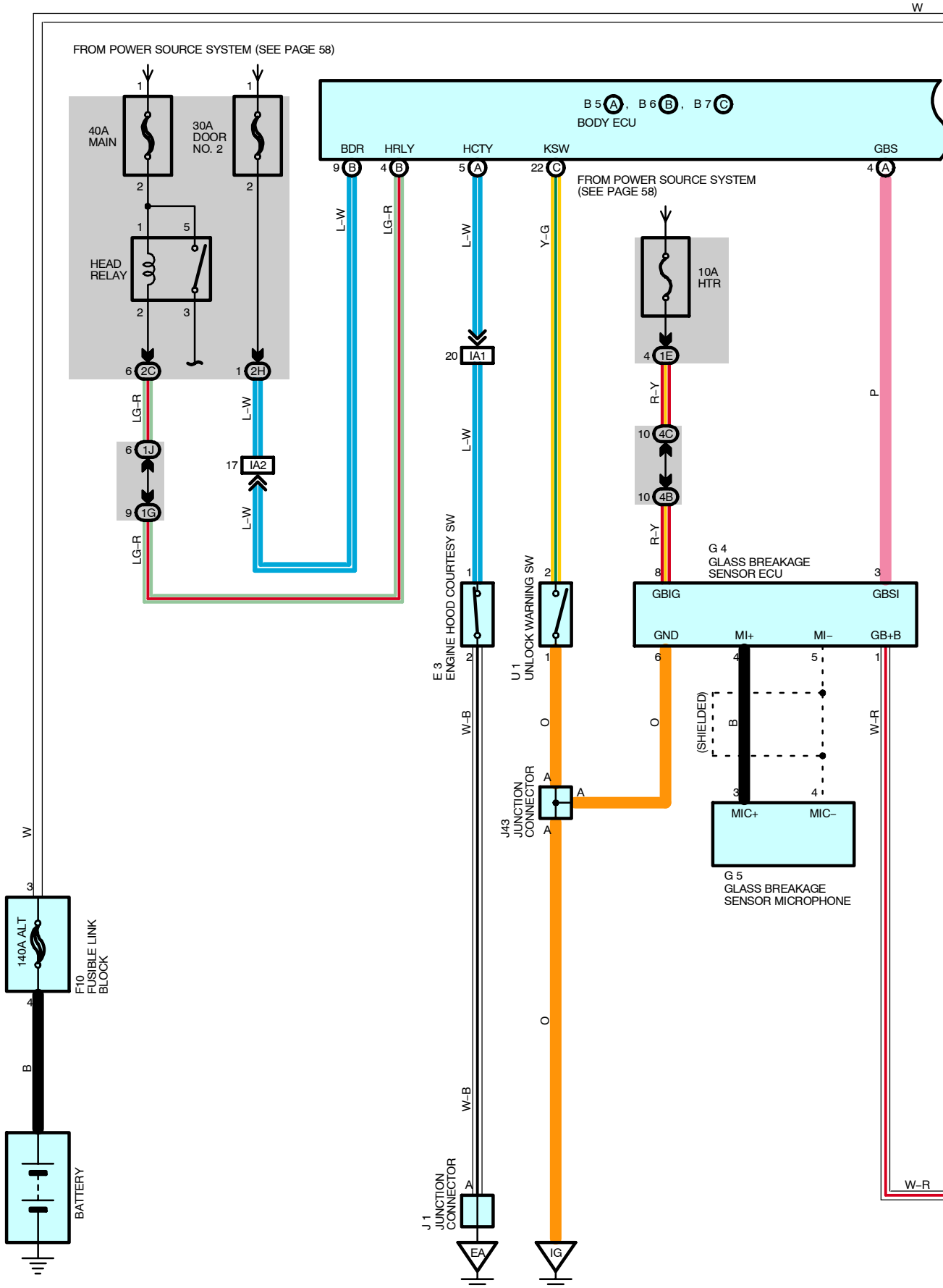
Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		

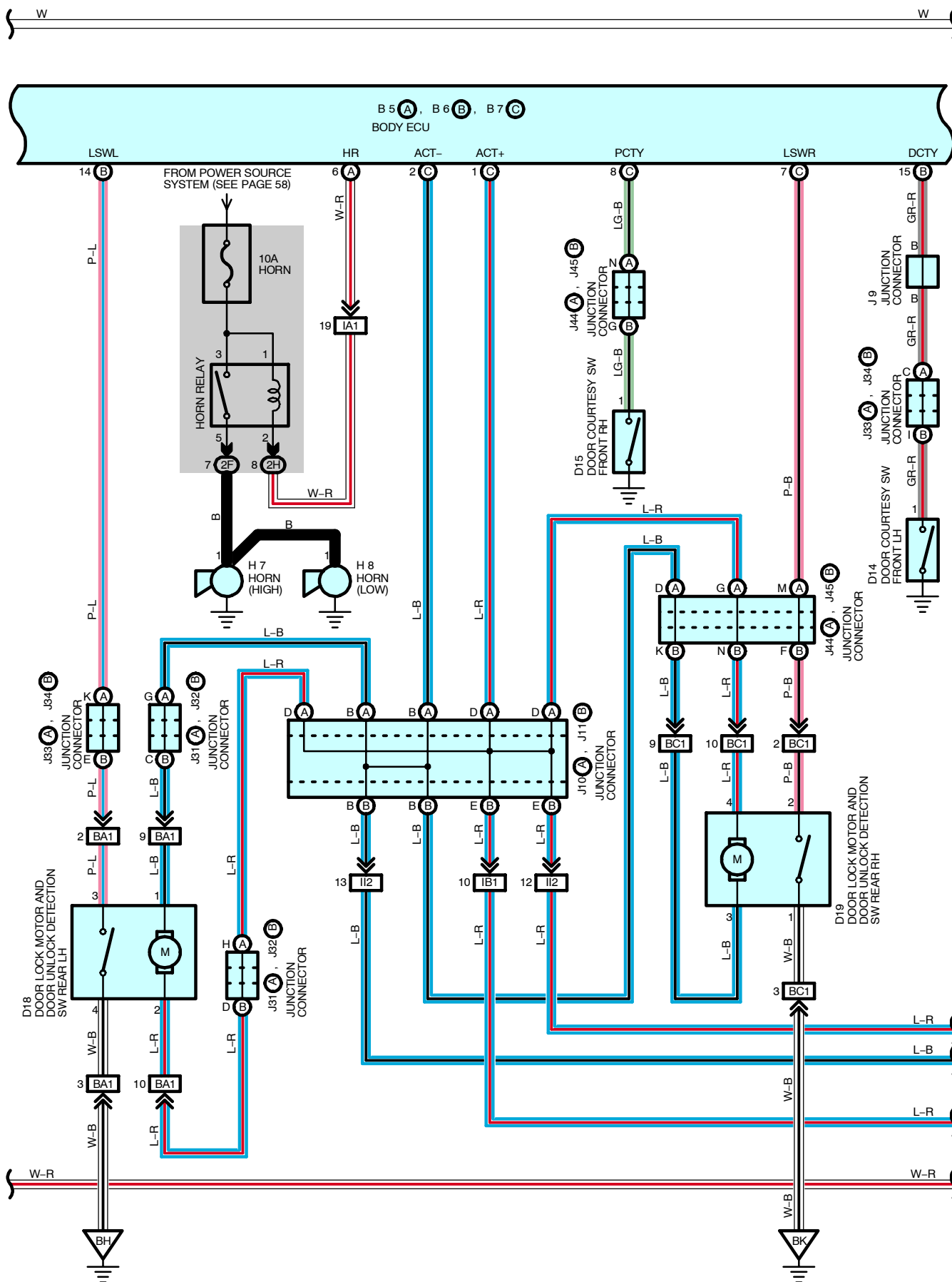
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
II1	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
II2		
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

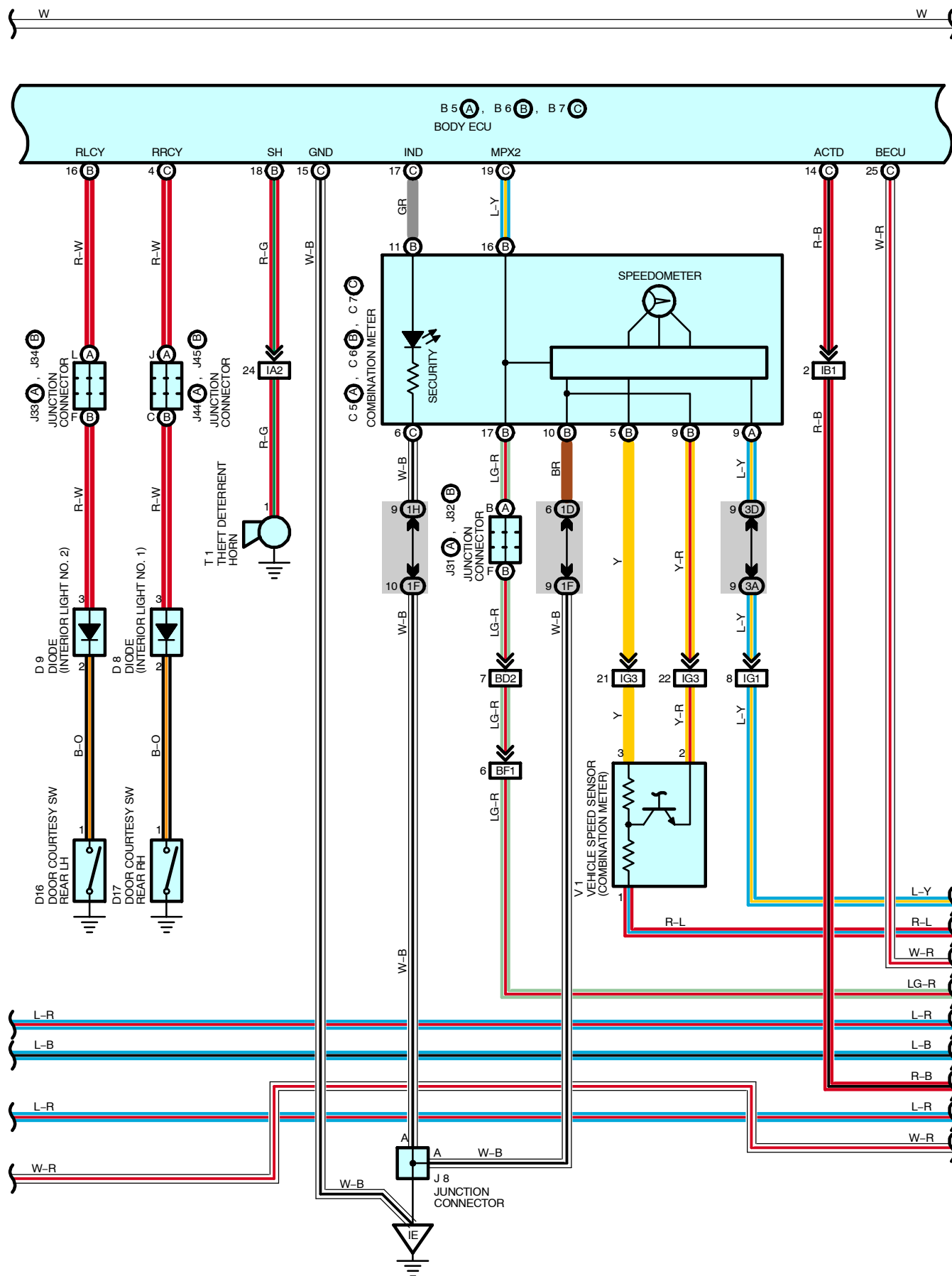
: GROUND POINTS

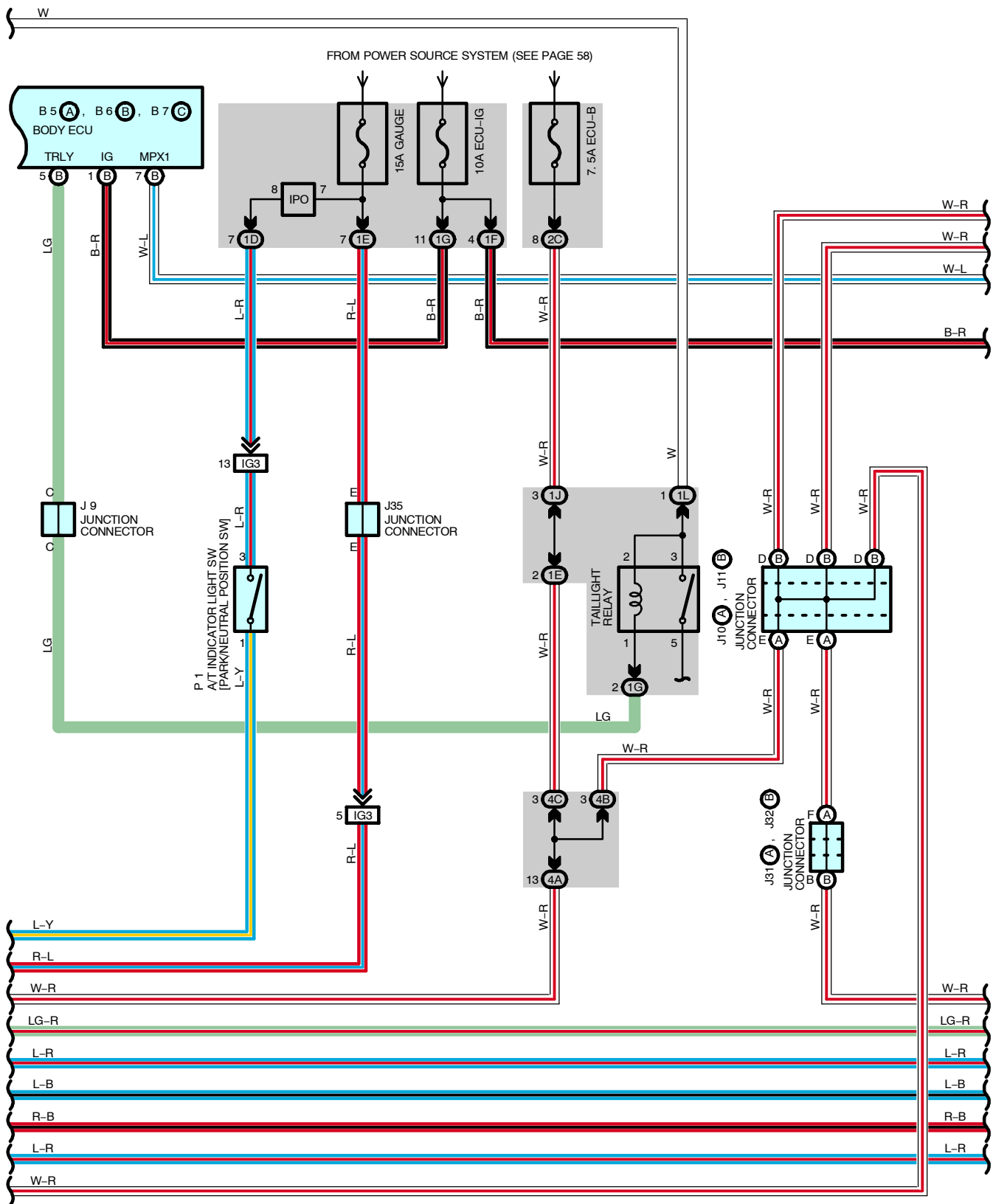
Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
BH	52	Left Side of Center Pillar
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar



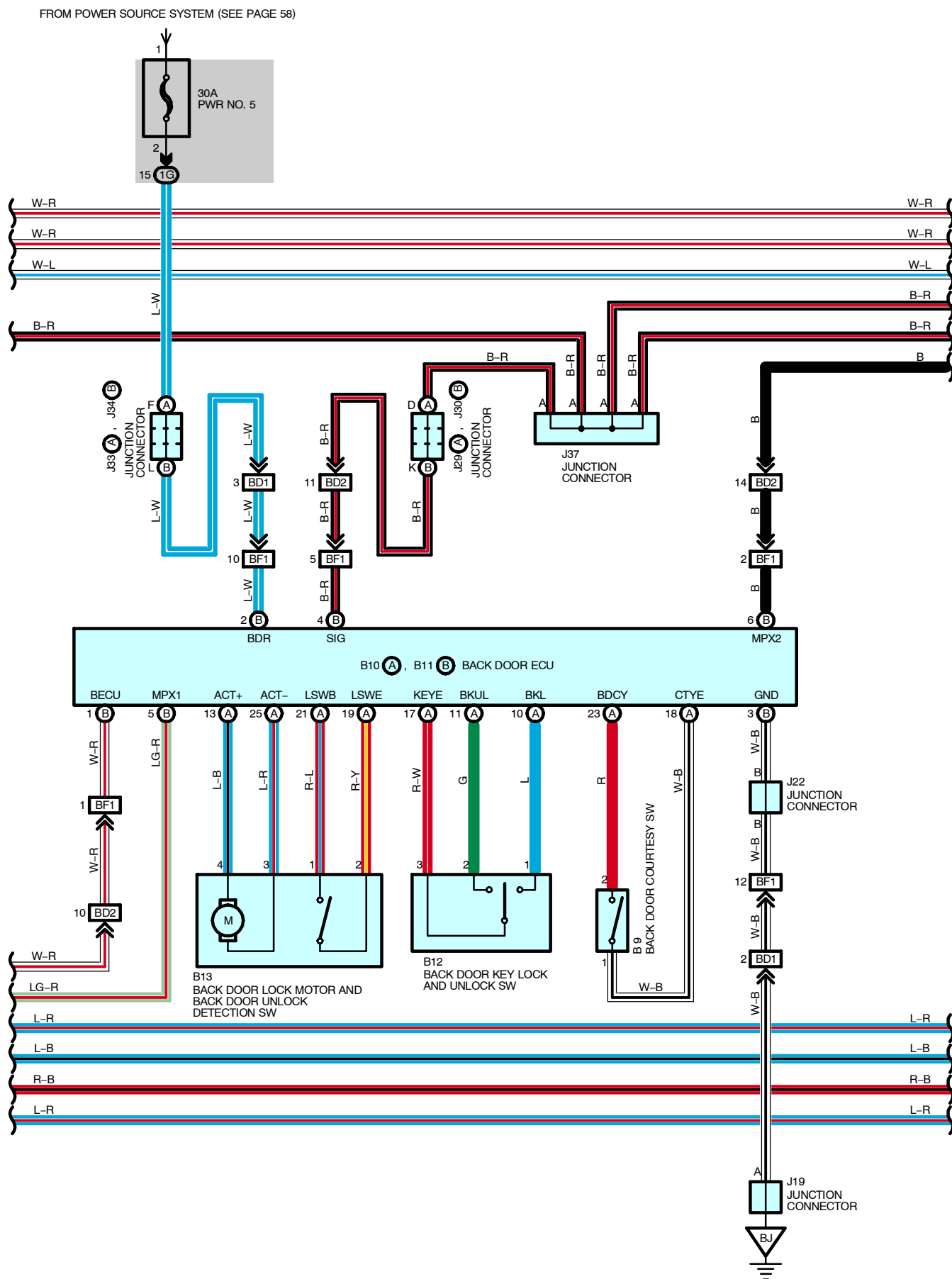


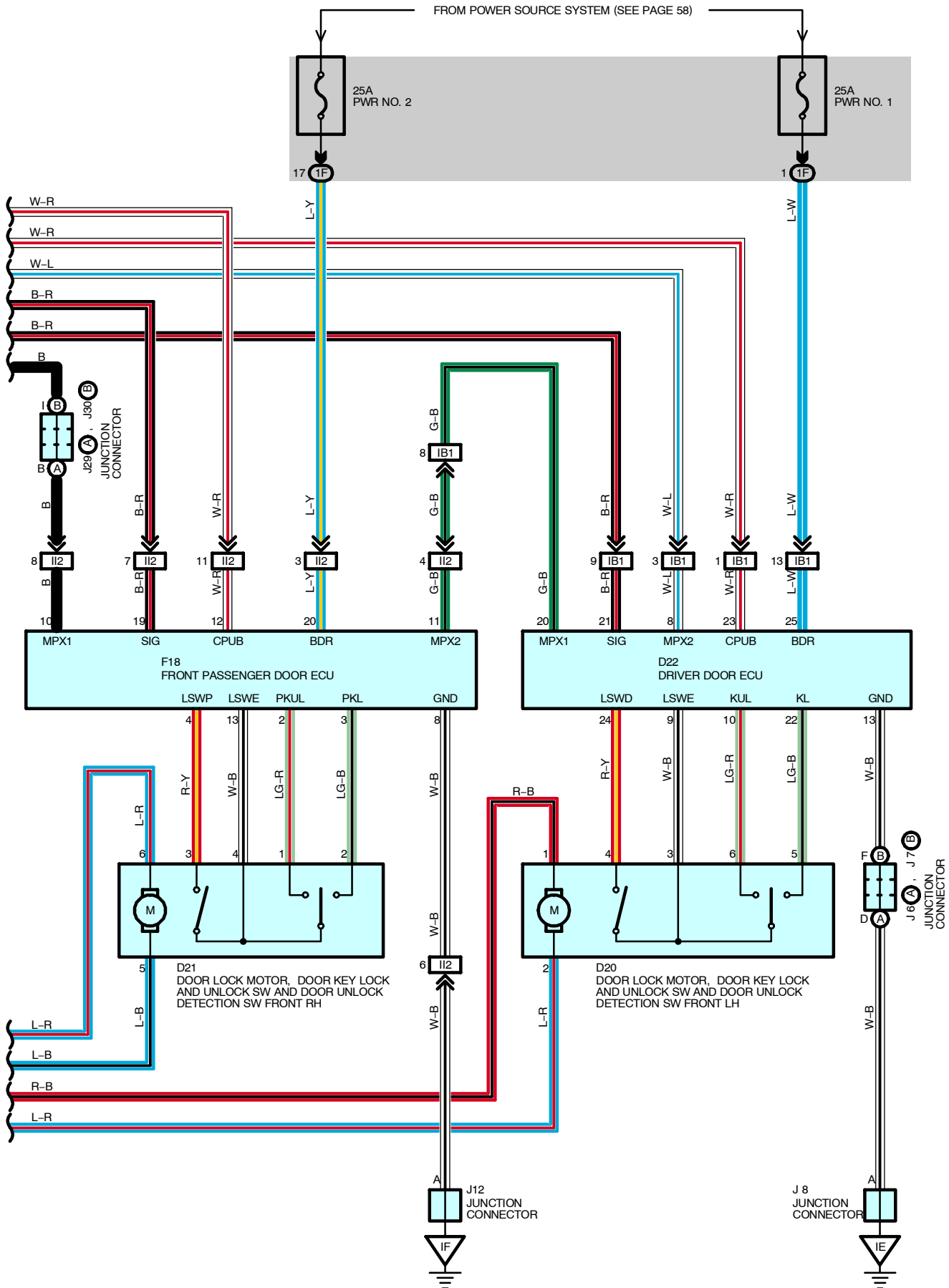
DOOR LOCK CONTROL AND THEFT DETERRENT





DOOR LOCK CONTROL AND THEFT DETERRENT





DOOR LOCK CONTROL AND THEFT DETERRENT

SYSTEM OUTLINE

1. MANUAL UNLOCK OPERATION

When the door lock control SW of the driver's or passenger's side door is pushed to UNLOCK, the door lock will unlock.

2. MANUAL LOCK OPERATION

When the door lock control SW of the driver's or passenger's side door is pushed to LOCK, the door lock will lock.

3. DOOR KEY UNLOCK OPERATION

* Unlock operation from driver's side door

When the driver's side door is unlocked once using the ignition key, only the driver's side door is unlocked. If this operation is repeated within 3 seconds, all the other doors are unlocked.

* Unlock operation from front passenger's side door

When the front passenger's side door is unlocked using the ignition key, all the other doors are unlocked, too.

4. AUTOMATIC DOOR LOCK

* The automatic door lock can be set and cancelled according to the customer's request. Automatic door lock corresponding to the shift

* When the shift lever is moved from the P range, the doors are automatically locked. Automatic door lock corresponding to vehicle speed

* When the vehicle speed becomes faster than 20km/h, the doors are locked automatically.

5. AUTOMATIC DOOR UNLOCK

* The automatic door unlock method can be selected by the customer. Automatic door unlock corresponding to ignition SW

* When the driver's door is opened within 10 seconds after the ignition SW is turned off, all the doors are unlocked automatically. Automatic door unlock corresponding to the shift lever

* When the shift lever is moved to the P range from other ranges, all the doors are automatically unlocked.

SERVICE HINTS

D20 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT LH

2-GROUND : Approx. 12 volts with the door lock motor at lock operate

1-GROUND : Approx. 12 volts with the door lock motor at unlock operate

5-3 : Closed with the door lock cylinder locked with key

6-3 : Closed with the door lock cylinder unlocked with key

D21 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT RH

6-GROUND : Approx. 12 volts with the door lock motor at lock operate

5-GROUND : Approx. 12 volts with the door lock motor at unlock operate

2-4 : Closed with the door lock cylinder locked with key

1-4 : Closed with the door lock cylinder unlocked with key

B12 BACK DOOR KEY LOCK AND UNLOCK SW

1-3 : Closed with the door lock cylinder locked with key

2-3 : Closed with the door lock cylinder unlocked with key

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	38	D19		42	J12		40
B6	B	38	D20		42	J19		42
B7	C	38	D21		42	J22		42
B9		42	D22		42	J29	A	40
B10	A	42	E3		36	J30	B	40
B11	B	42	F10		36	J31	A	40
B12		42	F18		42	J32	B	40
B13		42	G4		39	J33	A	40
C5	A	38	G5		39	J34	B	40
C6	B	38	H7		36	J35		40
C7	C	38	H8		36	J37		40
D8		42	J1		37	J43		40
D9		42	J6	A	40	J44	A	40
D14		42	J7	B	40	J45	B	40
D15		42	J8		40	P1		37
D16		42	J9		40	T1		37
D17		42	J10	A	40	U1		41
D18		42	J11	B	40	V1		37

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2F		
2H		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

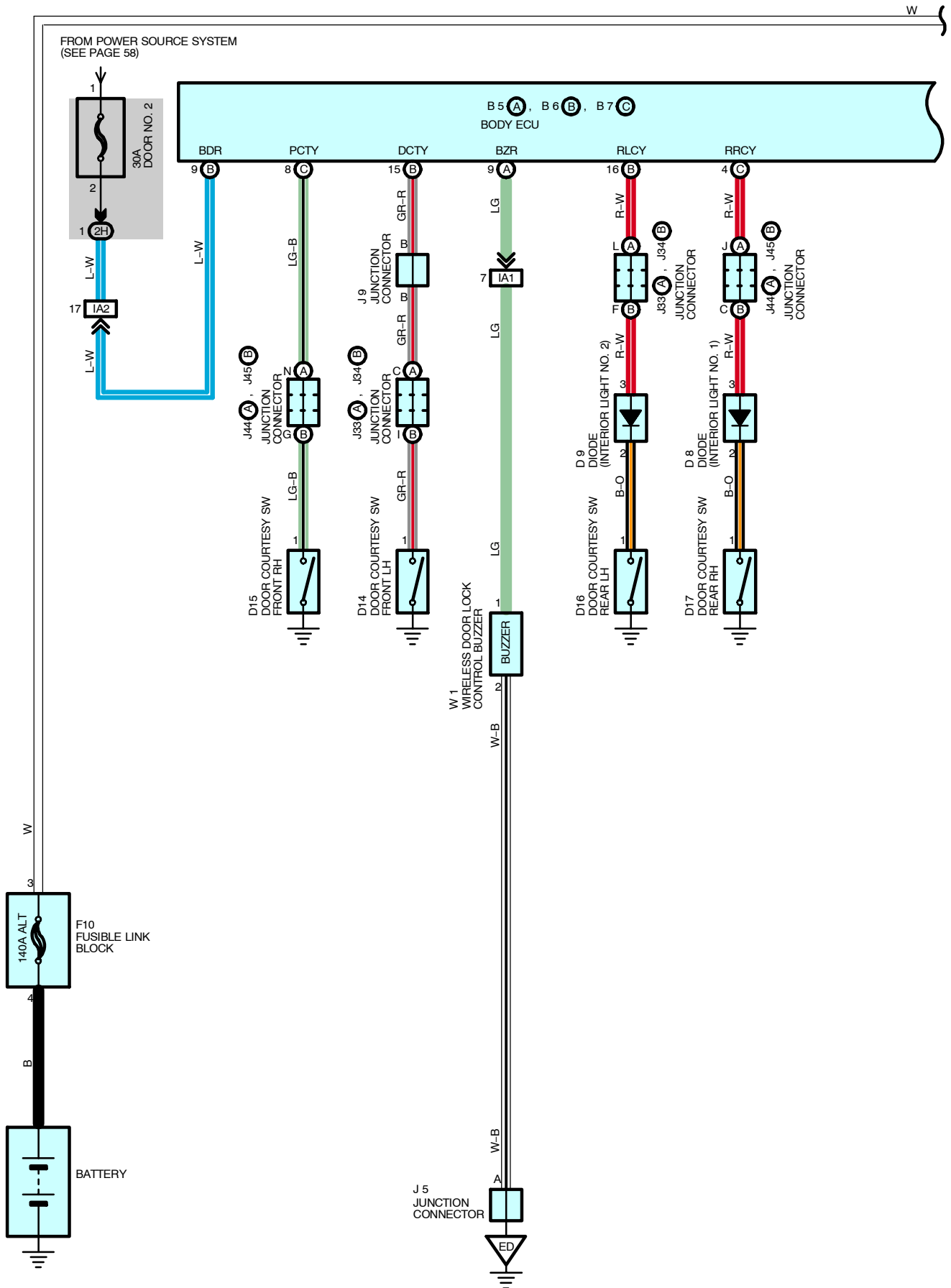
DOOR LOCK CONTROL AND THEFT DETERRENT

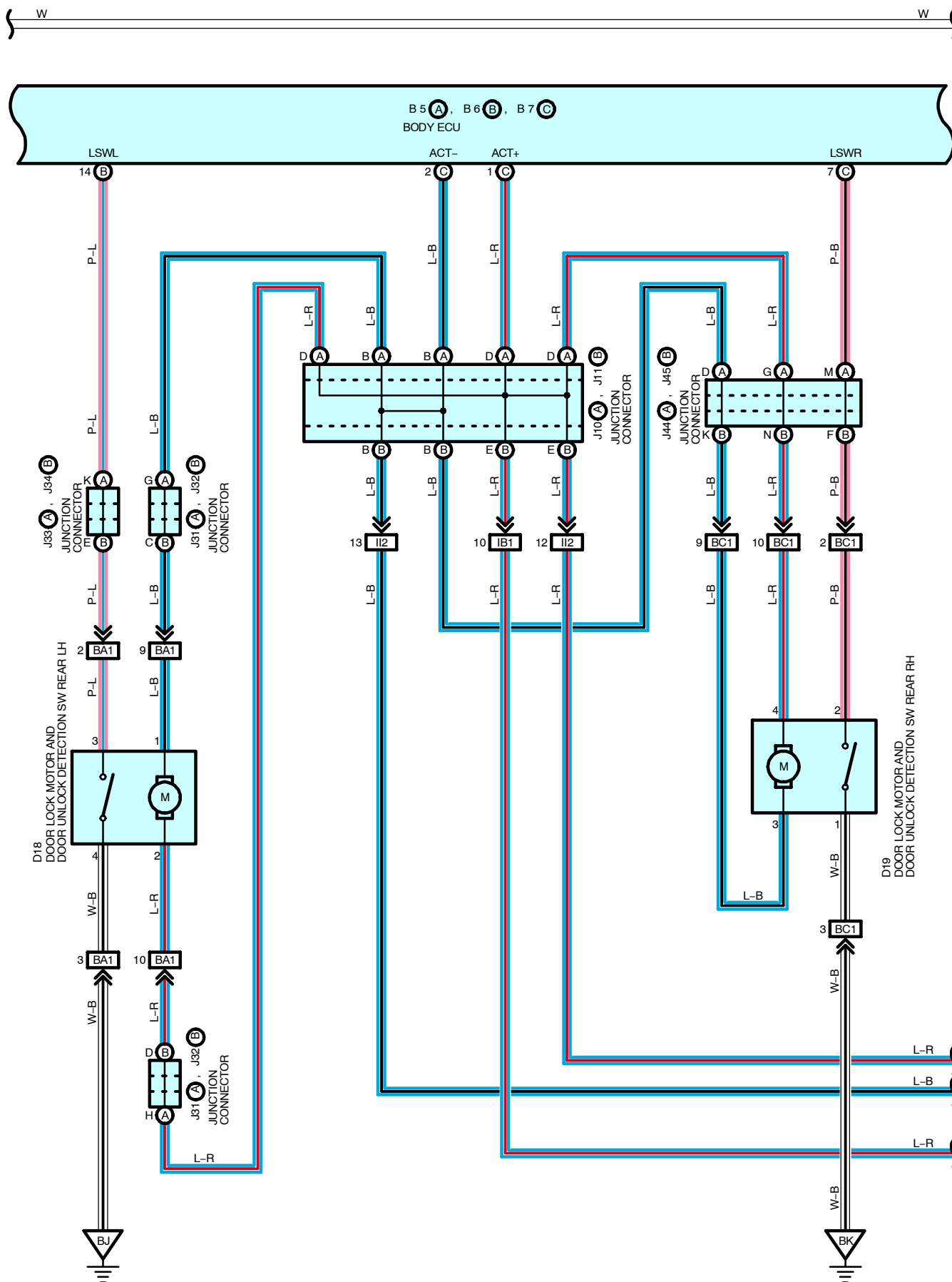


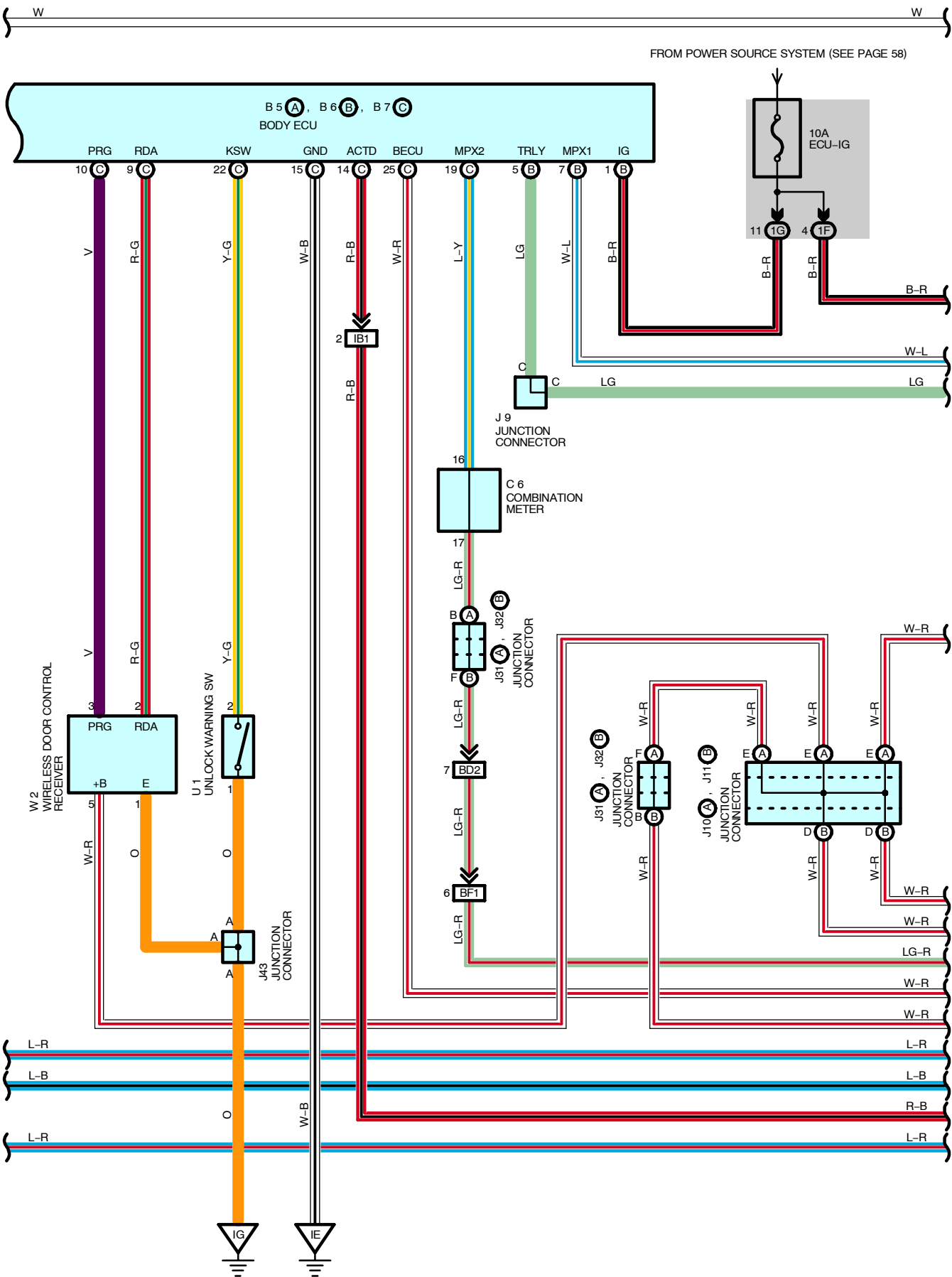
: GROUND POINTS

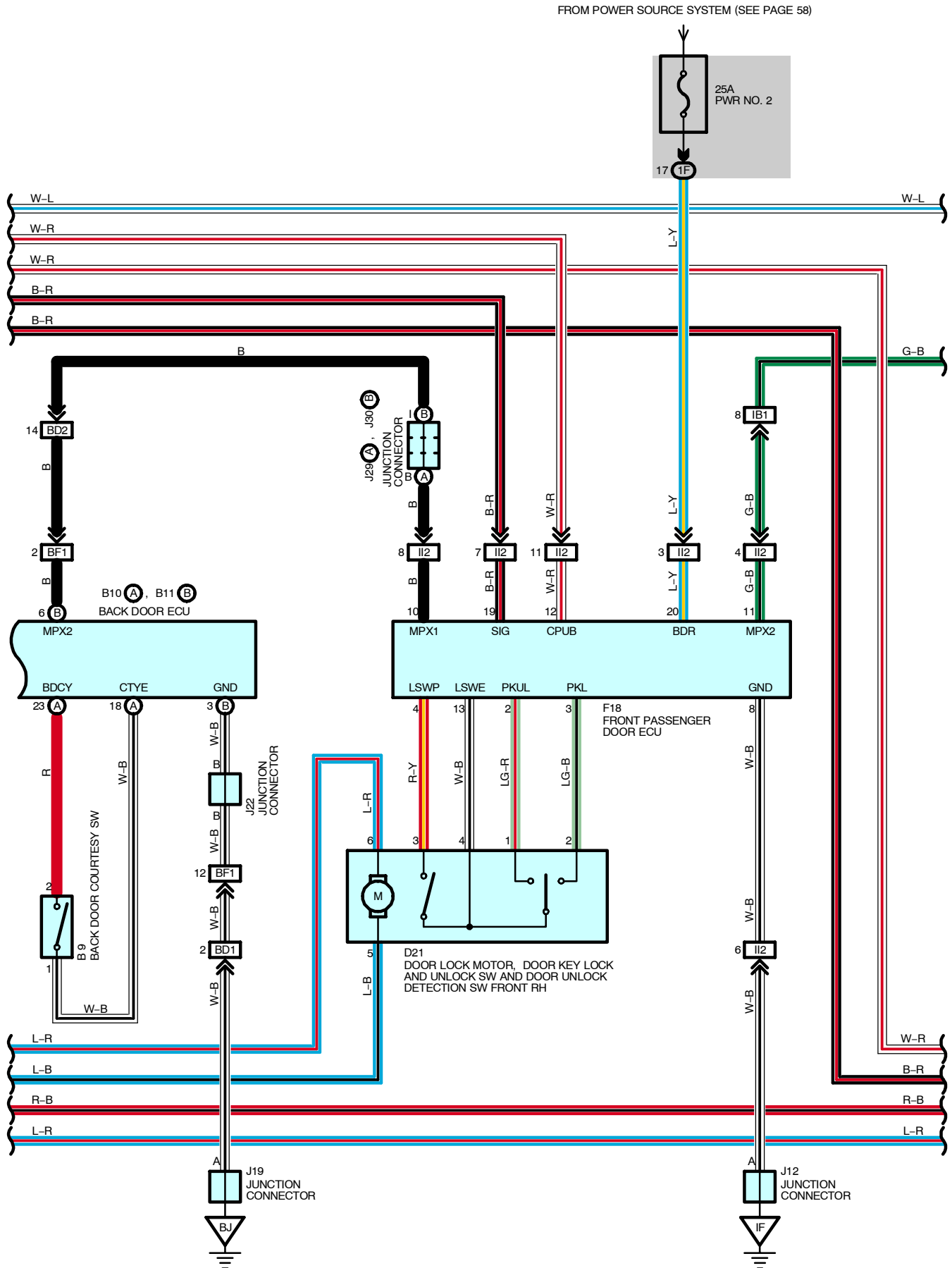
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
IG	48	Right Kick Panel
BH	52	Left Side of Center Pillar
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

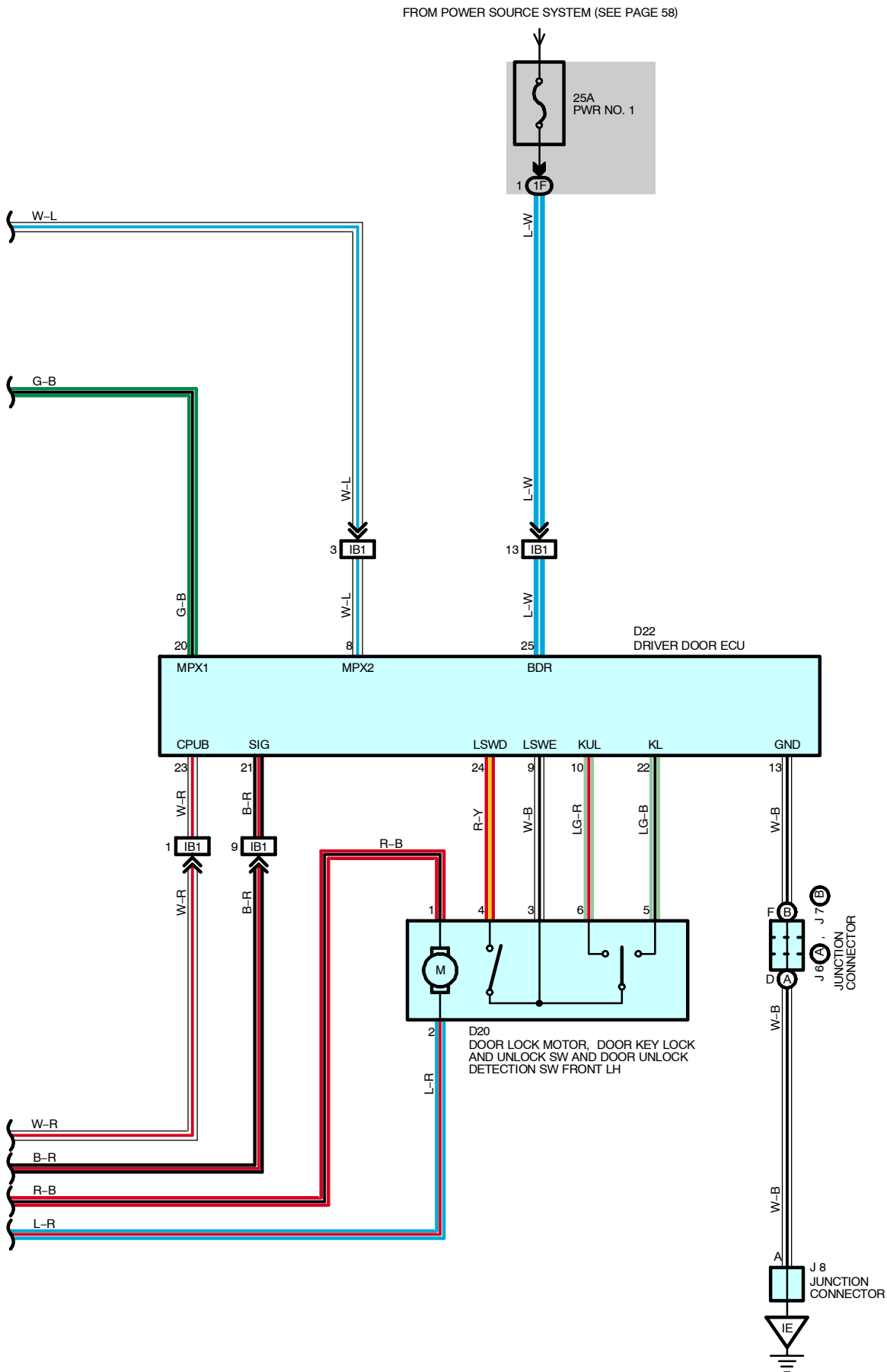
WIRELESS DOOR LOCK CONTROL











WIRELESS DOOR LOCK CONTROL

SYSTEM OUTLINE

The current flows continuously from DOOR NO.2 fuse to body ECU TERMINAL BDR, from PWR NO.5 fuse to back door ECU TERMINAL BDR, from PWR NO.2 fuse to front passenger door ECU TERMINAL BDR, from PWR NO.1 fuse to driver door ECU TERMINAL BDR, and from ECU-B fuse to body ECU, back door ECU, front passenger ECU, driver door ECU, wireless door control receiver.

1. WIRELESS DOOR LOCK/UNLOCK NORMAL OPERATION:

Lock operation

All the doors are locked when the lock SW of the transmitter is operated.

Unlock operation

When the unlock SW of the transmitter is operated, the driver's door is unlocked, and if the SW is operated again within 3 seconds, all the doors are unlocked.

2. AUTOMATIC LOCK OPERATION

When the doors are unlocked by operating the unlock SW of the transmitter, if no door is opened or the ignition key is not inserted in the key cylinder within 30 seconds, all the doors will be locked again.

3. LOCK/UNLOCK OPERATION AUDIOVISUAL EFFECT CHECK

When the vehicle is locked by the transmitter, the parking light & taillight flashes once, and a buzzer sounds once. When the vehicle is unlocked by the transmitter, the parking light & taillight flashes twice, and a buzzer sounds twice.

When the unlock SW of the transmitter is operated while all the doors are locked, the doors will be unlocked and the room light will come on.

When the back window open SW is operated, the buzzer sounds once.

4. OUTPUT REPEAT FUNCTION

If there is not change in the lock condition of the vehicle after the lock signal is output from the transmitter, the lock signal is output again.

SERVICE HINTS

D14, D15, D16, D17 DOOR COURTESY SW FRONT LH, RH, REAR LH, RH

1-GROUND : Closed with the door open

D20 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT LH

2-GROUND : Approx. 12 volts with the door lock motor at lock operate

1-GROUND : Approx. 12 volts with the door lock motor at unlock operate

5-3 : Closed with the door lock cylinder locked with key

6-3 : Closed with the door lock cylinder unlocked with key

D21 DOOR LOCK MOTOR, DOOR KEY LOCK AND UNLOCK SW AND DOOR UNLOCK DETECTION SW FRONT RH

6-GROUND : Approx. 12 volts with the door lock motor at lock operate

5-GROUND : Approx. 12 volts with the door lock motor at unlock operate

2-4 : Closed with the door lock cylinder locked with key

1-4 : Closed with the door lock cylinder unlocked with key

D18 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR LH

2-GROUND : Approx. 12 volts with the door lock motor at lock operate

1-GROUND : Approx. 12 volts with the door lock motor at unlock operate

D19 DOOR LOCK MOTOR AND DOOR UNLOCK DETECTION SW REAR RH

4-GROUND : Approx. 12 volts with the door lock motor at lock operate

3-GROUND : Approx. 12 volts with the door lock motor at unlock operate

B12 BACK DOOR KEY LOCK AND UNLOCK SW

1-3 : Closed with the door lock cylinder locked with key

2-3 : Closed with the door lock cylinder unlocked with key

B13 BACK DOOR LOCK MOTOR AND BACK DOOR UNLOCK DETECTION SW

4-GROUND : Approx. 12 volts with the door lock motor at lock operate

3-GROUND : Approx. 12 volts with the door lock motor at unlock operate

B9 BACK DOOR COURTESY SW

1-2 : Closed with the back door open

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	38	D18		42	J19		42
B6	B	38	D19		42	J22		42
B7	C	38	D20		42	J29	A	40
B9		42	D21		42	J30	B	40
B10	A	42	D22		42	J31	A	40
B11	B	42	F10		36	J32	B	40
B12		42	F18		42	J33	A	40
B13		42	J5		37	J34	B	40
C6		38	J6	A	40	J37		40
D8		42	J7	B	40	J43		40
D9		42	J8		40	J44	A	40
D14		42	J9		40	J45	B	40
D15		42	J10	A	40	U1		41
D16		42	J11	B	40	W1		37
D17		42	J12		40	W2		41

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1L		
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		

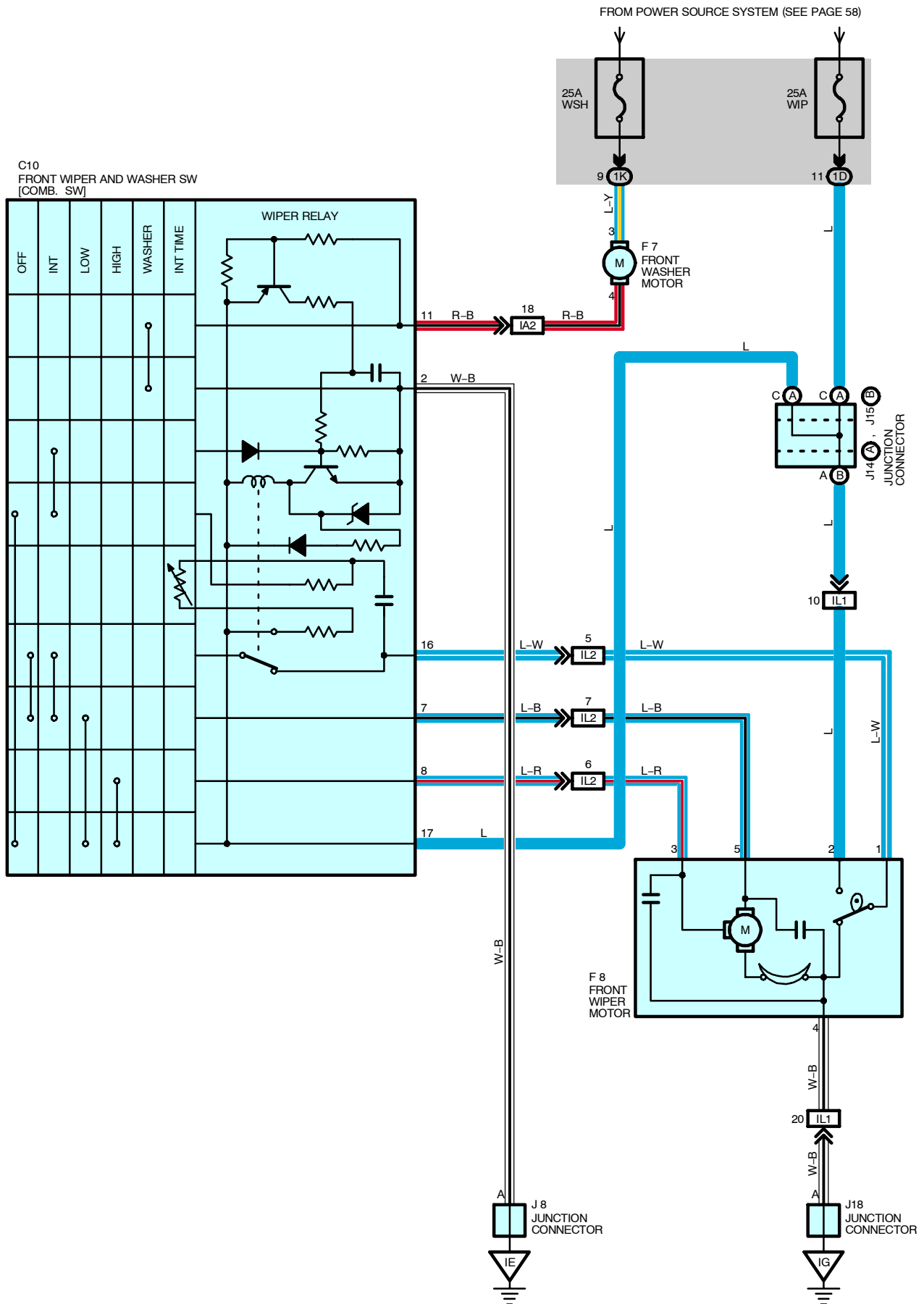
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
IG	48	Right Kick Panel
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

FRONT WIPER AND WASHER



SYSTEM OUTLINE

With the ignition SW turned on, current flows to TERMINAL 17 of the wiper and washer SW and TERMINAL 2 of the wiper motor through the WIP fuse.

1. LOW SPEED POSITION

With wiper SW turned to LOW position, current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the wiper motor to TERMINAL 4 to GROUND and causes the wiper motor to run at low speed.

2. HIGH SPEED POSITION

With wiper SW turned to HIGH position, current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 8 to TERMINAL 3 of the wiper motor to TERMINAL 4 to GROUND and causes the motor to run at high speed.

3. INT POSITION

With wiper SW turned to INT position, the relay operates and the current which is connected by relay function flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 2 to GROUND. This flowing the intermittent circuit and current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the wiper motor to TERMINAL 4 to GROUND and the wiper functions.

The intermittent operation is controlled by charging and discharging of the condenser installed in the relay and the intermittent time is controlled by a time control SW to change the charging time of the condenser.

4. WASHER INTERLOCKING OPERATION

With the washer SW pulled up, current flows from TERMINAL 3 of the washer motor to TERMINAL 4 to TERMINAL 11 of the wiper and washer SW to TERMINAL 2 to GROUND and causes to the washer motor to run, and the window washer is jetted. This causes current to flow to washer continuous operation circuit in TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the wiper motor to TERMINAL 4 to GROUND and the wiper functions.

SERVICE HINTS

C10 FRONT WIPER AND WASHER [COMB. SW]

2-GROUND : Always continuity

17-GROUND : Approx. 12 volts with the ignition SW at **ON** position

7-GROUND : Approx. 12 volts with the wiper and washer SW at **LOW** position

Approx. 12 volts every approx. 1.6 to 10.7 seconds intermittently with the wiper SW at **INT** position

16-GROUND : Approx. 12 volts with the ignition SW on unless wiper motor at **STOP** position

8-GROUND : Approx. 12 volts with the ignition SW on and wiper and washer SW at **HIGH** position

11-2 : Continuity with the washer SW on

F8 FRONT WIPER MOTOR

1-2 : Closed unless wiper motor at **STOP** position

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C10	38	J8	40	J18	40
F7	36	J14	A 40		
F8	36	J15	B 40		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

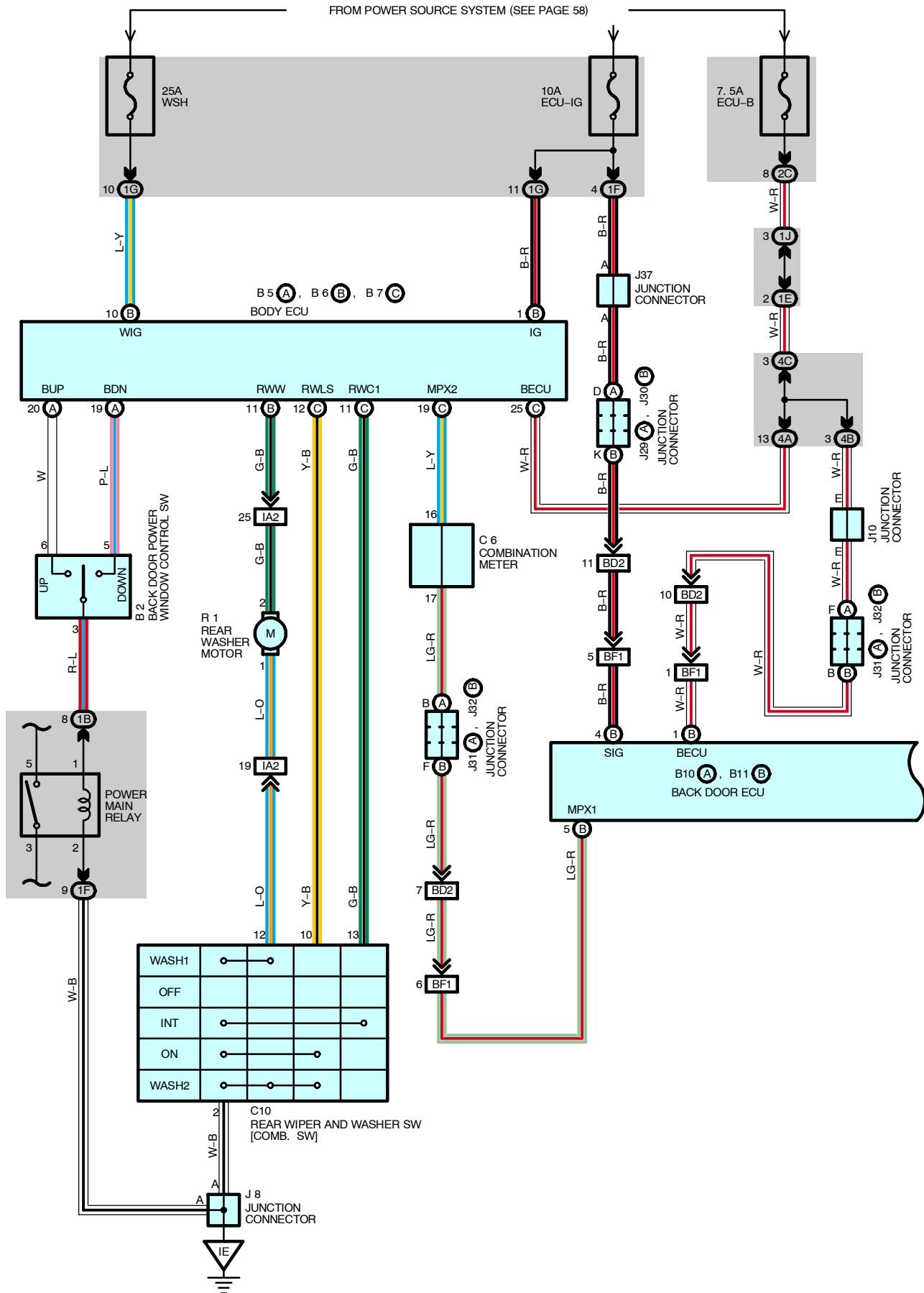
Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

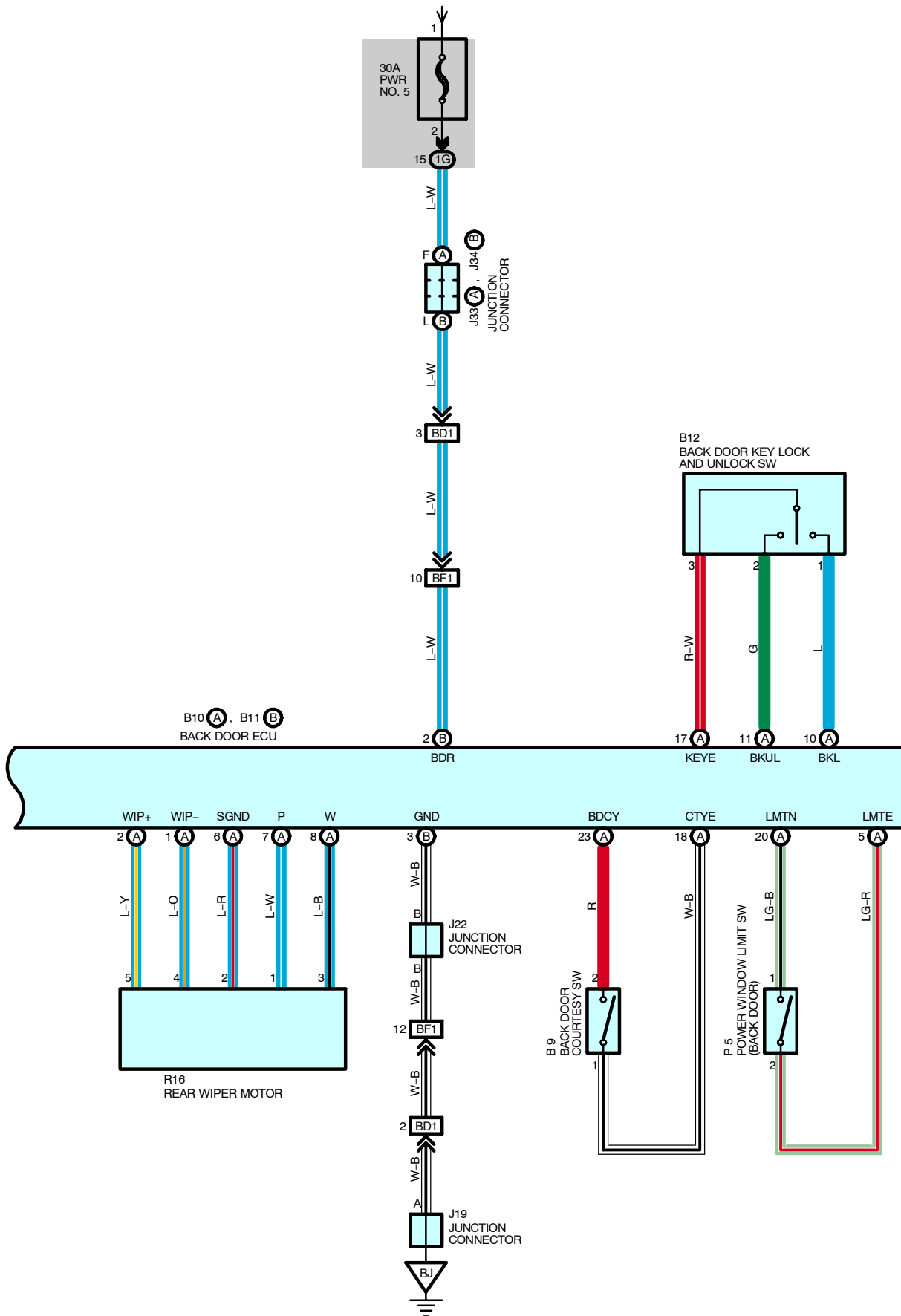
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IL1	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
IL2		

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel



FROM POWER SOURCE SYSTEM (SEE PAGE 58)



REAR WIPER AND WASHER

SYSTEM OUTLINE

The rear wiper motor is operated when the BACK DOOR ECU receives a signal from the BODY ECU. After use, the motor will operate until the rear wiper is stored in position.

* ON position

The rear wiper motor will operate continuously.

* INT position

The rear wiper motor will operate continuously for the first three wipes then operates intermittently.

* Storage

The rear wiper will be stored when the following conditions are met during use:

* The rear wiper SW is turned to OFF from ON or INT position.

* Ignition SW is turned to OFF.

* Back door limit SW is turned OFF

* Back door power control SW is turned ON.

* Back door key SW is turned ON.

SERVICE HINTS

C10 REAR WIPER AND WASHER SW [COMB. SW]

10-GROUND : Continuity with the rear wiper SW at **ON** position

13-GROUND : Continuity with the rear wiper SW at **INT** position

2-GROUND : Always continuity

R1 REAR WASHER MOTOR

1-GROUND : Continuity with the washer SW turned on

B6 (B), B7 (C) BODY ECU

(B) 1-GROUND : Approx. **12** volts with ignition SW at **ON** position

(B)10-GROUND : Approx. **12** volts with ignition SW at **ON** position

(C)25-GROUND : Always approx. **12** volts

B11 (B) BACK DOOR ECU

(B) 4-GROUND : Approx. **12** volts with ignition SW at **ON** position

(B) 1-GROUND : Always approx. **12** volts

(B) 3-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
B2	38	C6	38	J31	A 40
B5	A 38	C10	38	J32	B 40
B6	B 38	J8	40	J33	A 40
B7	C 38	J10	40	J34	B 40
B9	42	J19	42	J37	40
B10	A 42	J22	42	P5	43
B11	B 42	J29	A 40	R1	37
B12	42	J30	B 40	R16	43

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1G		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		

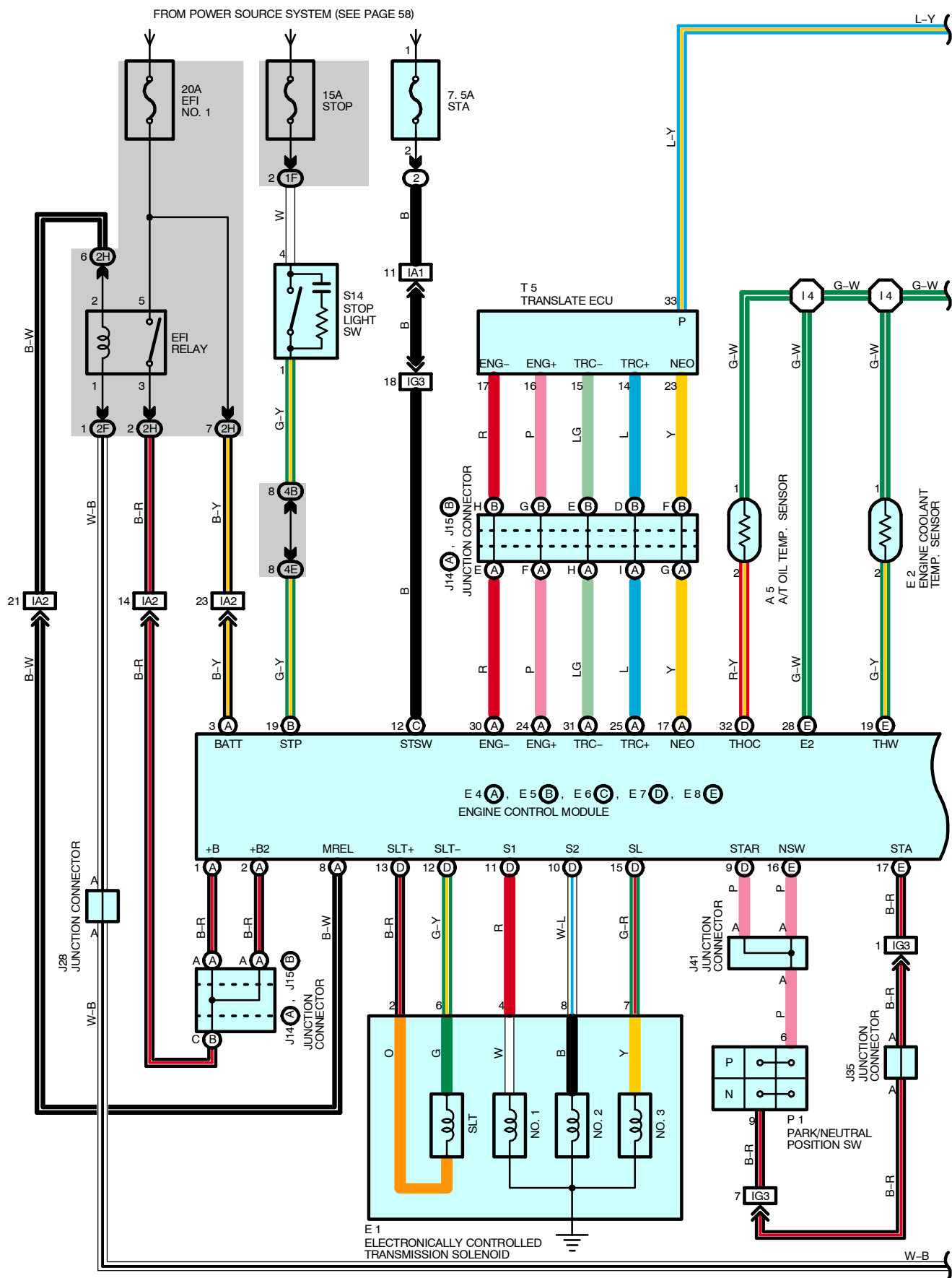
 : **CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS**

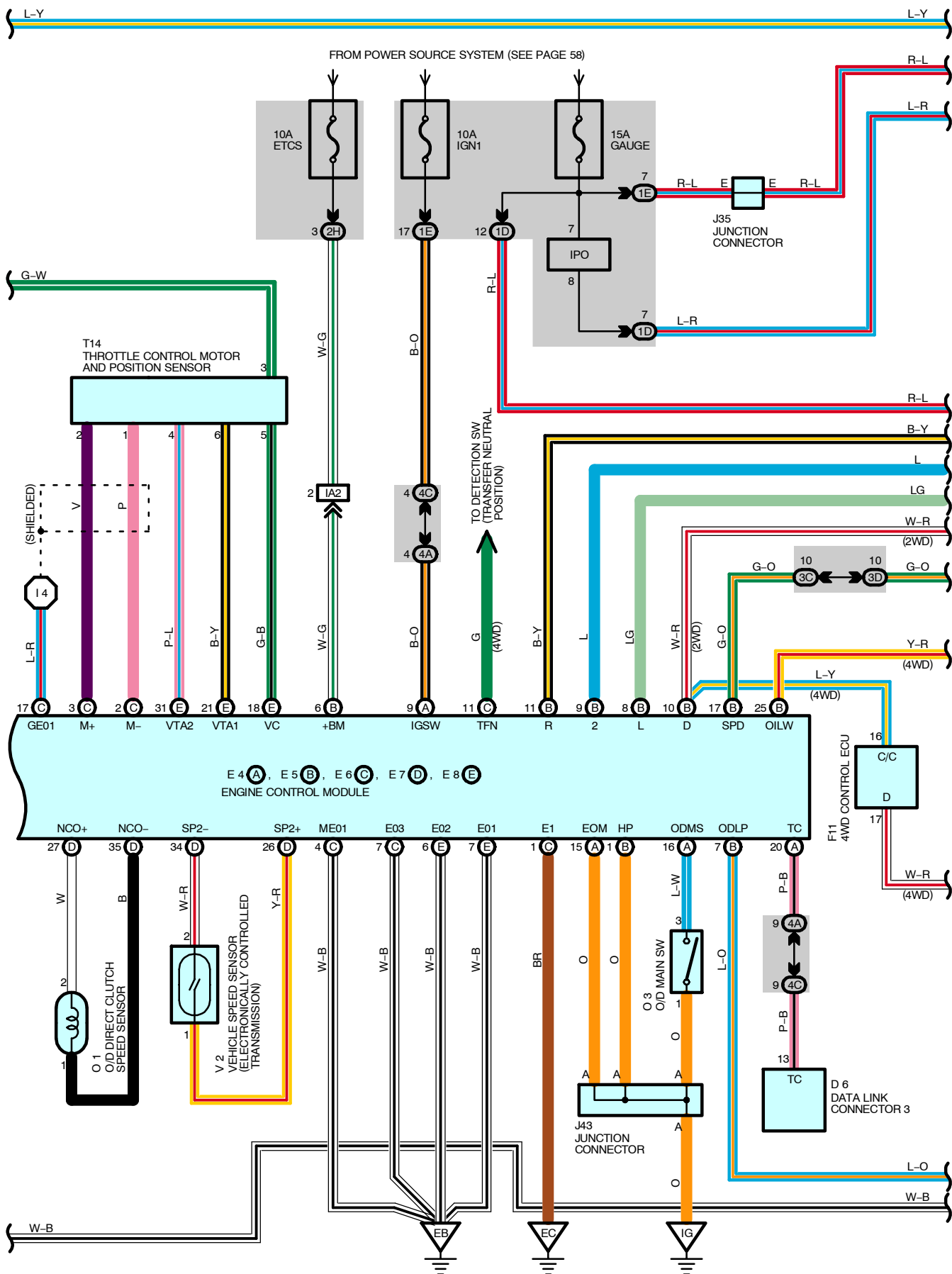
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

 : **GROUND POINTS**

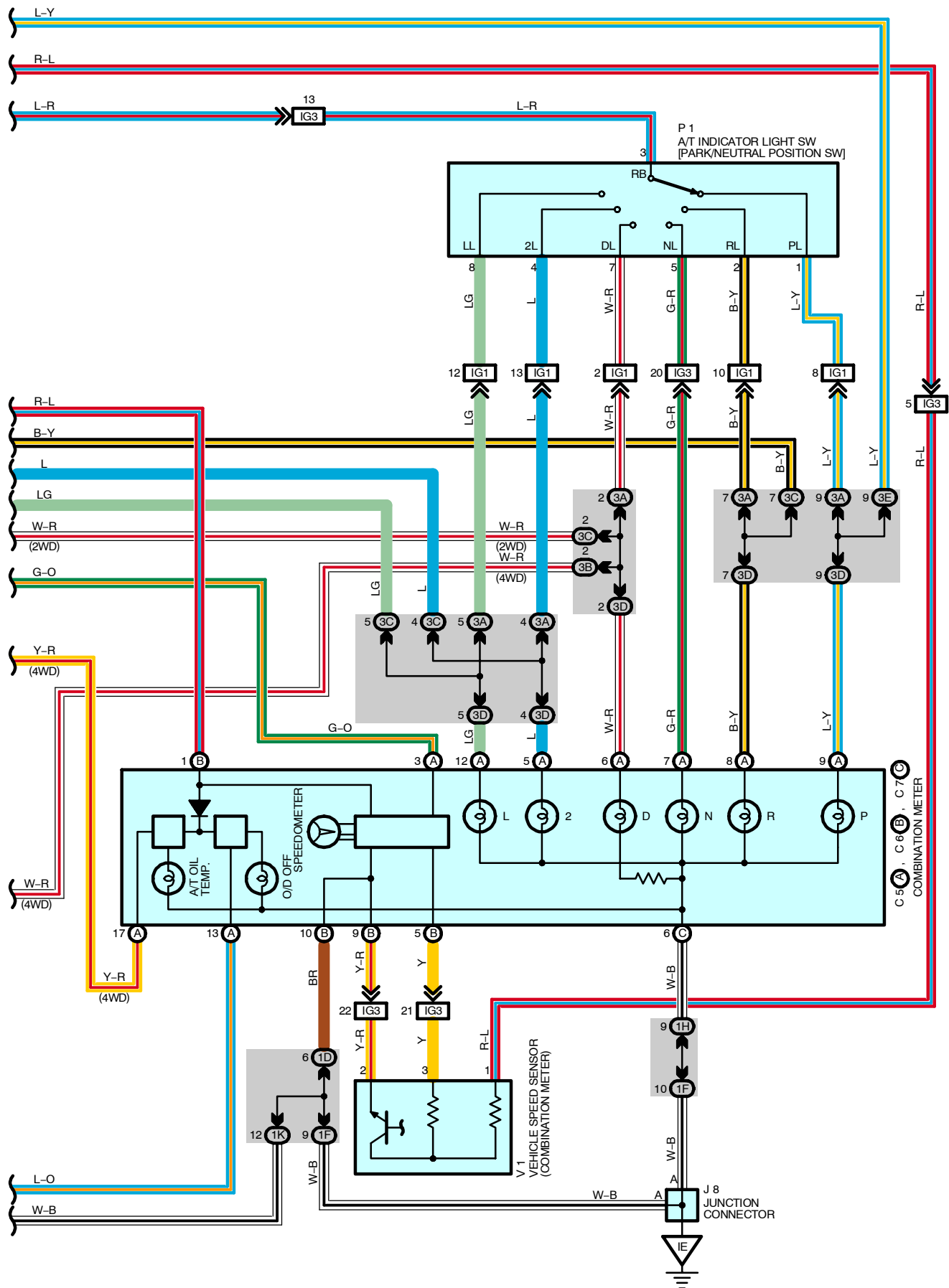
Code	See Page	Ground Points Location
IE	48	Left Kick Panel
BJ	52	Left Side of Rear Quarter Panel

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR





ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR



SYSTEM OUTLINE

The electronically controlled transmission electrically controls the, throttle pressure, lock-up pressure, and accumulator pressure etc. through the solenoid valve.

The electronically controlled transmission is a system which precisely controls the gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection of the gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

1. GEAR SHIFT OPERATION

When driving, the engine warm up condition is input as a control signal from the engine coolant temp. sensor to TERMINAL THW of the engine control module, and the vehicle speed is input to TERMINAL SP2+ of the engine control module from the vehicle speed sensor. At the same time, the throttle valve opening signal from the throttle position sensor is input to TERMINALS VTA1, VTA2 of the engine control module as a throttle angle signal. Based on these signals, the engine control module selects the best shift position for the driving conditions and sends current to the electronically controlled transmission solenoid.

2. LOCK-UP OPERATION

When the engine control module decides based on each signal that the lock-up condition has been met, the current flows from the engine control module TERMINAL SL to TERMINAL 7 of the electronically controlled transmission solenoid to GROUND.

3. STOP LIGHT SW CIRCUIT

If the brake pedal is depressed (Stop light SW on) when driving in lock-up position, a signal is input to TERMINAL STP of the engine control module. As a result, the engine control module cuts the current to the solenoid to release the lock-up.

4. OVERDRIVE CIRCUIT

* O/D main SW on

When the O/D main SW is switched to ON position, a signal is input to TERMINAL ODMS of the engine control module, and enables shift change to the overdrive range, through the control of the engine control module.

* O/D main SW off

When the O/D main SW is switched to OFF position, a signal is input to TERMINAL ODMS of the engine control module, and prohibits shift change to the overdrive range through the control of the engine control module. When in the overdrive range already, shift down is made.

ELECTRONICALLY CONTROLLED TRANSMISSION AND A/T INDICATOR

SERVICE HINTS

E1 ELECTRONICALLY CONTROLLED TRANSMISSION SOLENOID

4, 7, 8-GROUND : Approx. 13 Ω

S14 STOP LIGHT SW

4-1 : Closed with the brake pedal depressed

E4 (A), E5 (B), E6 (C), E7 (D), E8 (E) ENGINE CONTROL MODULE

S1-E1 : 9-14 volts with the vehicle not move and shift lever in **D** position

S2,SL-E1 : 0-1.5 volts with the vehicle not move

STP-E1 : 7.5-14 volts with the brake pedal depressed

: 0-1.5 volts with the brake pedal released

THW-E1 : 0.2-1.0 volts with the idling, engine coolant temp. 60°C (140°F)-120°C (248°F)

THOC-E1 : Below 1.0 volts with the fluid temp. 110°C (230°F)

VTA1-E1 : 0.4-1.0 volts with the ignition SW on and throttle valve fully closed

: 3.2-4.8 volts with the ignition SW on and throttle valve fully open

VC-E1 : 4.5-5.5 volts with the ignition SW at **ON** or **ST** position

ODMS-E1 : 9-14 volts with the O/D main SW turned on

: 0-3 volts with the O/D main SW turned off

SPD-E1 : Pulse generation with the vehicle moving

2-E1 : 7.5-14 volts with the shift lever at **2** position

: 0-1.5 volts with the shift lever at except **2** position

L-E1 : 7.5-14 volts with the shift lever at **L** position

: 0-1.5 volts with the shift lever at except **L** position

+B, +B2-E1 : 9-14 volts with the ignition SW at **ON** or **ST** position

BATT-E1 : Always 9-14 volts

E01, E02, E03, ME01, E1, E0M, HP-GROUND : Always continuity

P1 A/T INDICATOR LIGHT SW [PARK/NEUTRAL POSITION SW]

3-1 : Closed with the shift lever in **P** position

3-2 : Closed with the shift lever in **R** position

3-5 : Closed with the shift lever in **N** position

3-7 : Closed with the shift lever in **D** position

3-4 : Closed with the shift lever in **2** position

3-8 : Closed with the shift lever in **L** position



: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A5	36	E7	D	O1	37
C5	A	E8	E	O3	41
C6	B	F11	39	P1	37
C7	C	J8	40	S14	41
D6	39	J14	A	T5	41
E1	36	J15	B	T14	37
E2	36	J28	37	V1	37
E4	A	J35	40	V2	37
E5	B	J41	40		
E6	C	J43	40		



: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

 : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1H		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3B		
3C		
3D		
3E		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4E		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

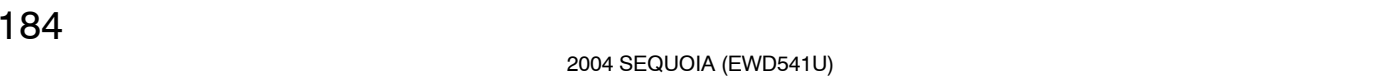
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		

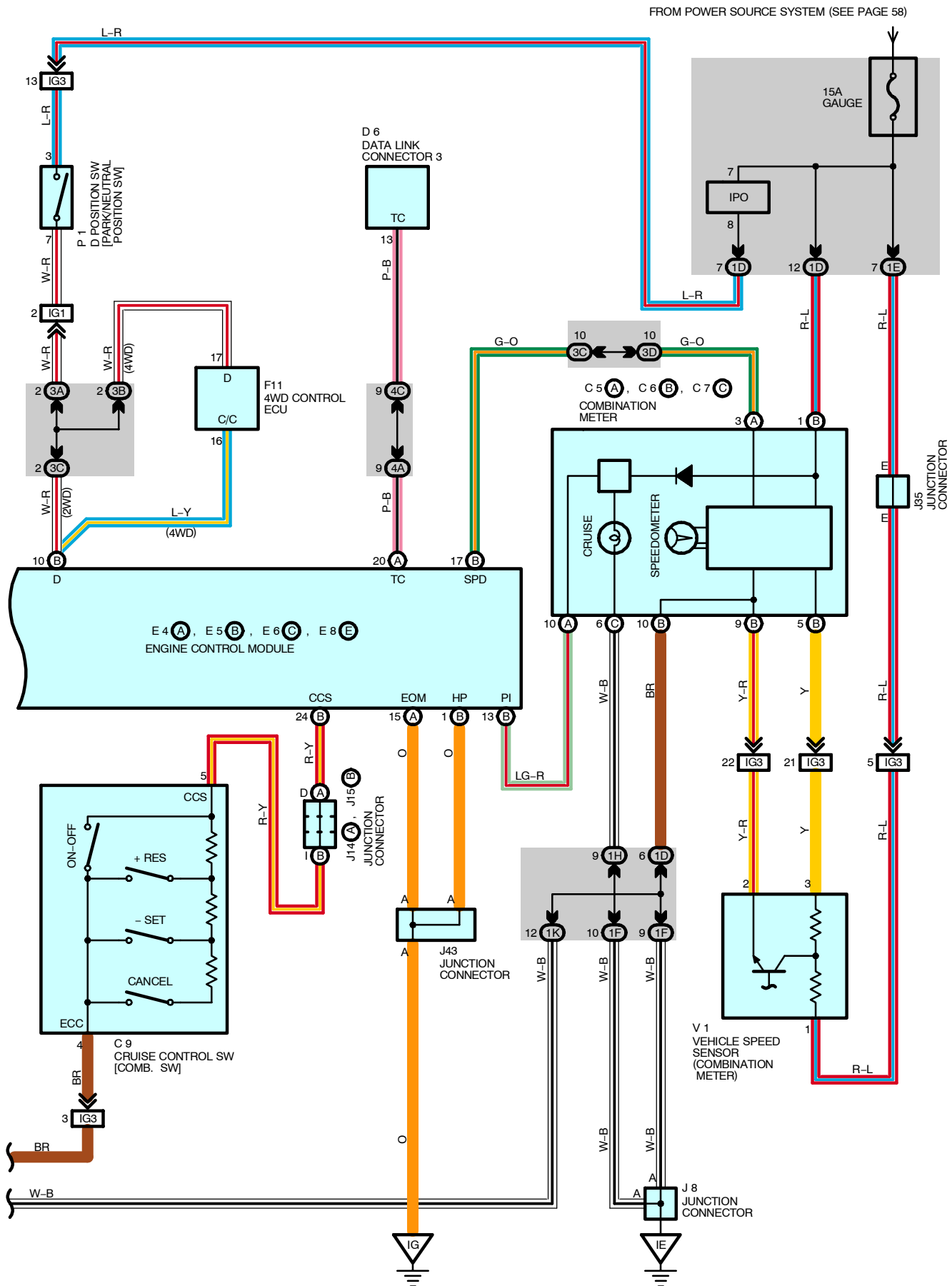
 : GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Rear Bank of Right Cylinder Head
EC	46	Rear Bank of Left Cylinder Head
IE	48	Left Kick Panel
IG	48	Right Kick Panel

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	50	Engine Wire			





CRUISE CONTROL

SYSTEM OUTLINE

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

SET CONTROL

When the – SET SW is operated while traveling with the ON–OFF SW on, the speed when the – SET SW is operated to off is memorized, and the vehicle speed is controlled at that speed.

COAST CONTROL

When the – SET SW is operated to on, the cruise control opening angle requirement is turned to 0 to decrease the vehicle speed, and the speed when the – SET SW is operated to off is memorized, and the vehicle speed is controlled at that speed. Furthermore, every time the – SET SW is operated momentarily (Approx. 0.5 sec.) to on, the memorized vehicle speed is decreased by approx. 1.5 km/h (0.9 mph).

ACCEL CONTROL

When the + RES SW is operated to on, the throttle motor rotates the throttle valve to open direction to increase the vehicle speed, and the speed when the + RES SW is operated to off is memorized, and the vehicle speed is controlled at that speed.

Furthermore, every time the + RES SW is operated momentarily (Approx. 0.5 sec.) to on, the memorized vehicle speed is increased by approx. 1.5 km/h (0.9 mph).

MANUAL CANCEL MECHANISM

If any of the following signals are input during cruise control traveling, the current to the motor flows in the direction to close the throttle valve, and cancel the cruise control.

- (1) Stop light SW is on (Brake pedal is depressed)
- (2) The CANCEL SW of the control SW is on
- (3) ON–OFF SW is off

RESUME CONTROL

After canceling the cruise control (except when the main SW is off) if the vehicle speed is above the minimum speed limit (Approx. 40km/h, 25mph), operating the + RES SW to on from off will cause the system to accelerate and resume to the vehicle speed before manual cancellation.

OVERDRIVE FUNCTION

The overdrive may be cut on an uphill grade, while traveling with the cruise control.

After the overdrive is cut, if the vehicle speed reaches the overdrive resume speed (Set speed minus 2 km/h (1.2 mph)), and if the system determines that the uphill grade has finished, the overdrive will resume after the overdrive timer operation.

AUTO CANCEL OPERATION

If any of the following conditions are detected, the set speed is erased and the control is canceled.

- (1) Disconnection and/or short in the stop light SW
- (2) Malfunction in the vehicle speed signal
- (3) Malfunction in the electronic throttle parts
- (4) Malfunction in the stop light SW input circuit
- (5) Malfunction in the cancel circuit
- (6) The actual vehicle speed becomes slower than the minimum speed limit
- (7) The actual vehicle speed becomes –16 km/h slower than the set speed

SERVICE HINTS

E4 (A), E5 (B), E6 (C), E8 (E) ENGINE CONTROL MODULE

BATT–E1 : Always **9.0–14.0** volts

+BM–E1 : Always **9.0–14.0** volts

IGSW–E1 : **9.0–14.0** volts with the ignition SW at **ON** position

+B, +B2–E1 : **9.0–14.0** volts with the ignition SW at **ON** position

STP–E1 : **7.5–14.0** volts with the brake pedal depressed

SPD–E1 : Pulse generation with the vehicle moving

E01, E02, E03, ME01, E1, E0M, HP–GROUND : Always continuity

C9 CRUISE CONTROL SW [COMB. SW]

5–4 : Approx. **1540** Ω with the CANCEL SW on

: Approx. **240** Ω with the + RES SW on

: Approx. **630** Ω with the – SET SW on

: PARTS LOCATION

Code		See Page		Code		See Page		Code		See Page	
A37		38		E5	B	39		J28	37		
C5	A	38		E6	C	39		J35	40		
C6	B	38		E8	E	39		J43	40		
C7	C	38		F11		39		P1	37		
C9		38		J8		40		S14	41		
D6		39		J14	A	40		T14	37		
E4	A	39		J15	B	40		V1	37		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1H		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3B		
3C		
3D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4E		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

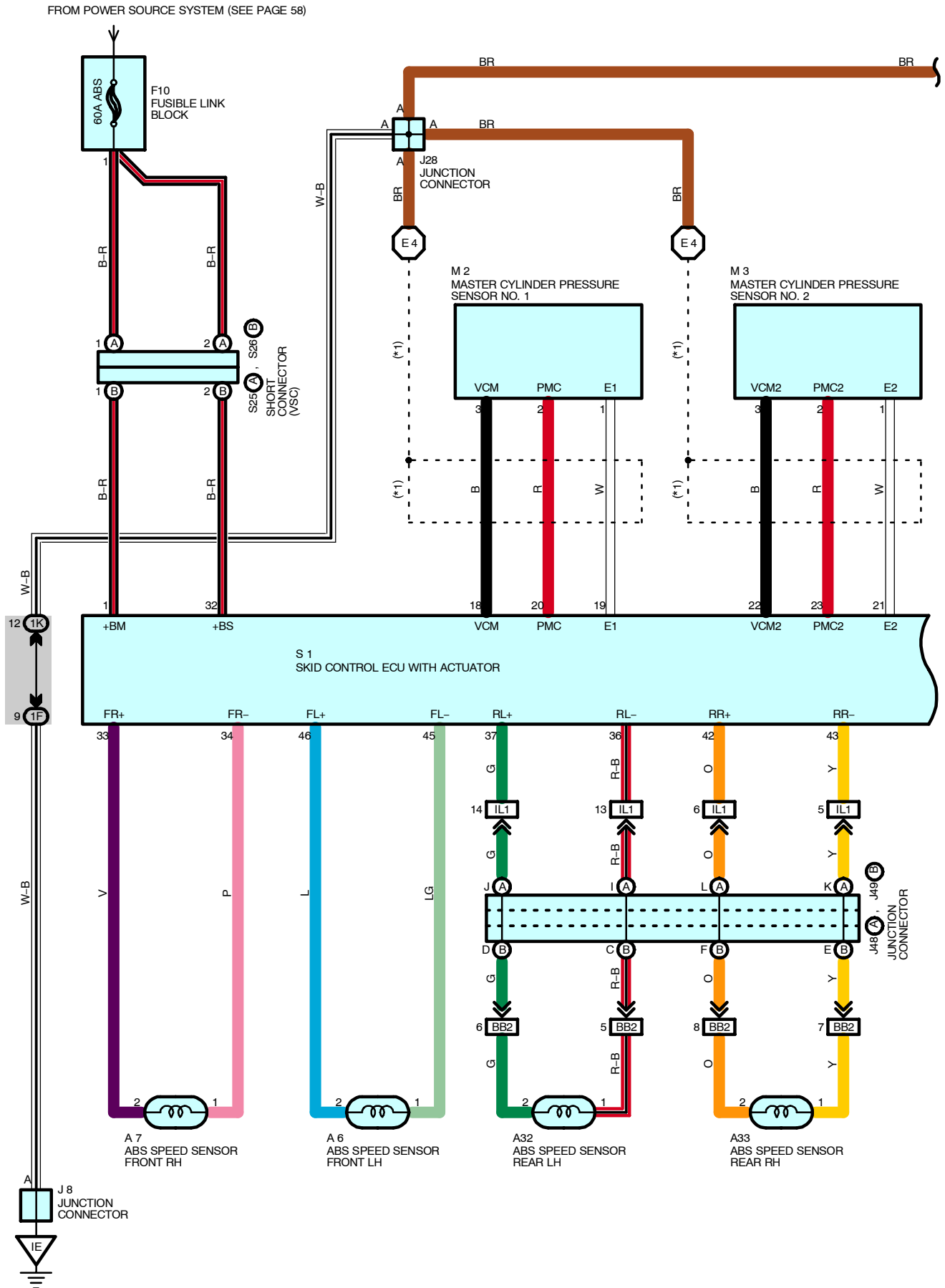
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		

: GROUND POINTS

Code	See Page	Ground Points Location
EB	46	Rear Bank of Right Cylinder Head
EC	46	Rear Bank of Left Cylinder Head
IE	48	Left Kick Panel
IG	48	Right Kick Panel

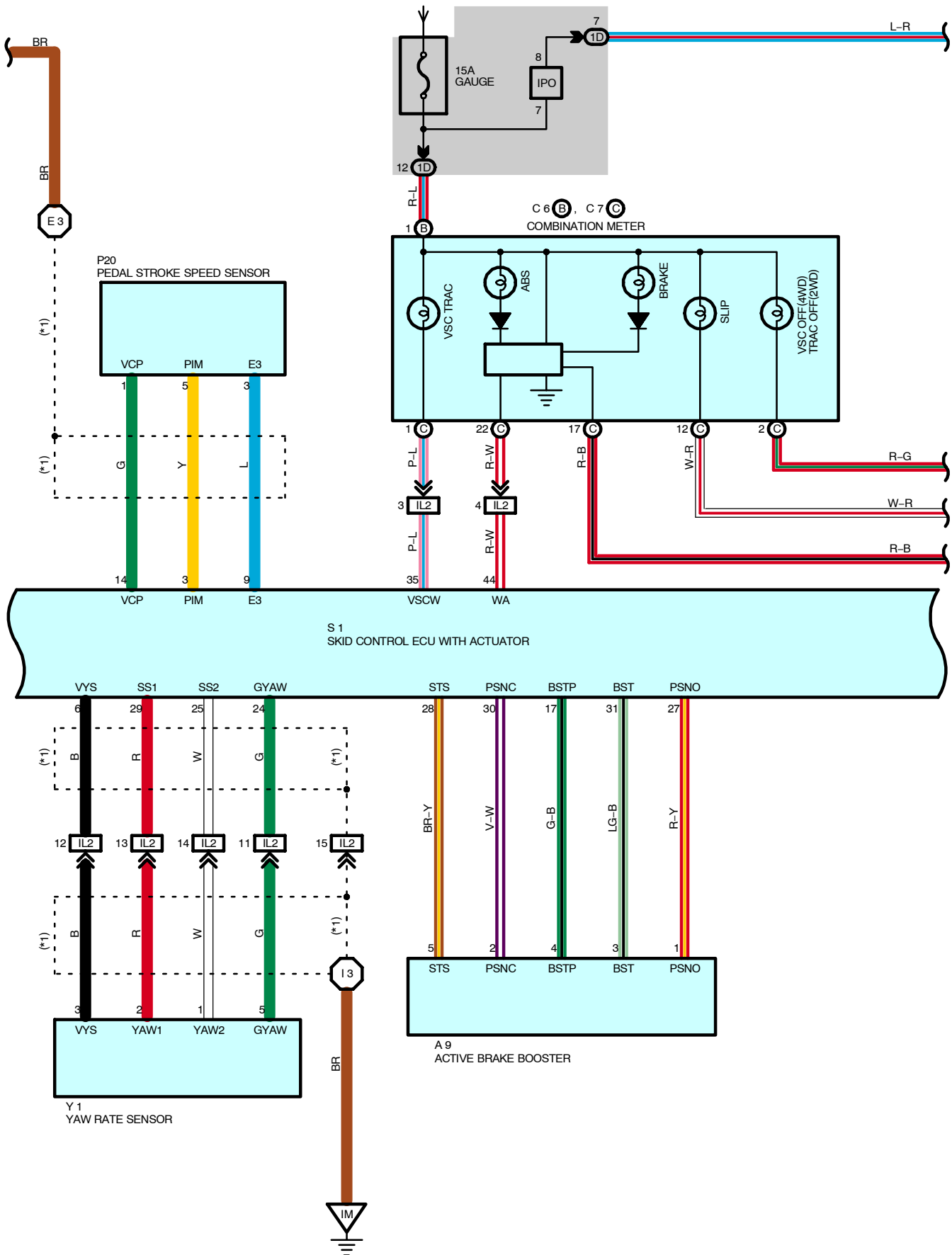
: SPLICE POINTS

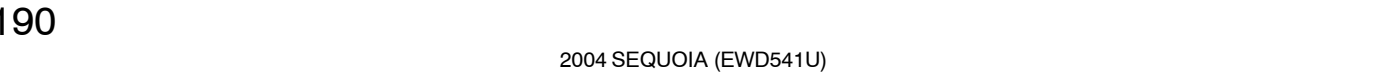
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	50	Engine Wire			

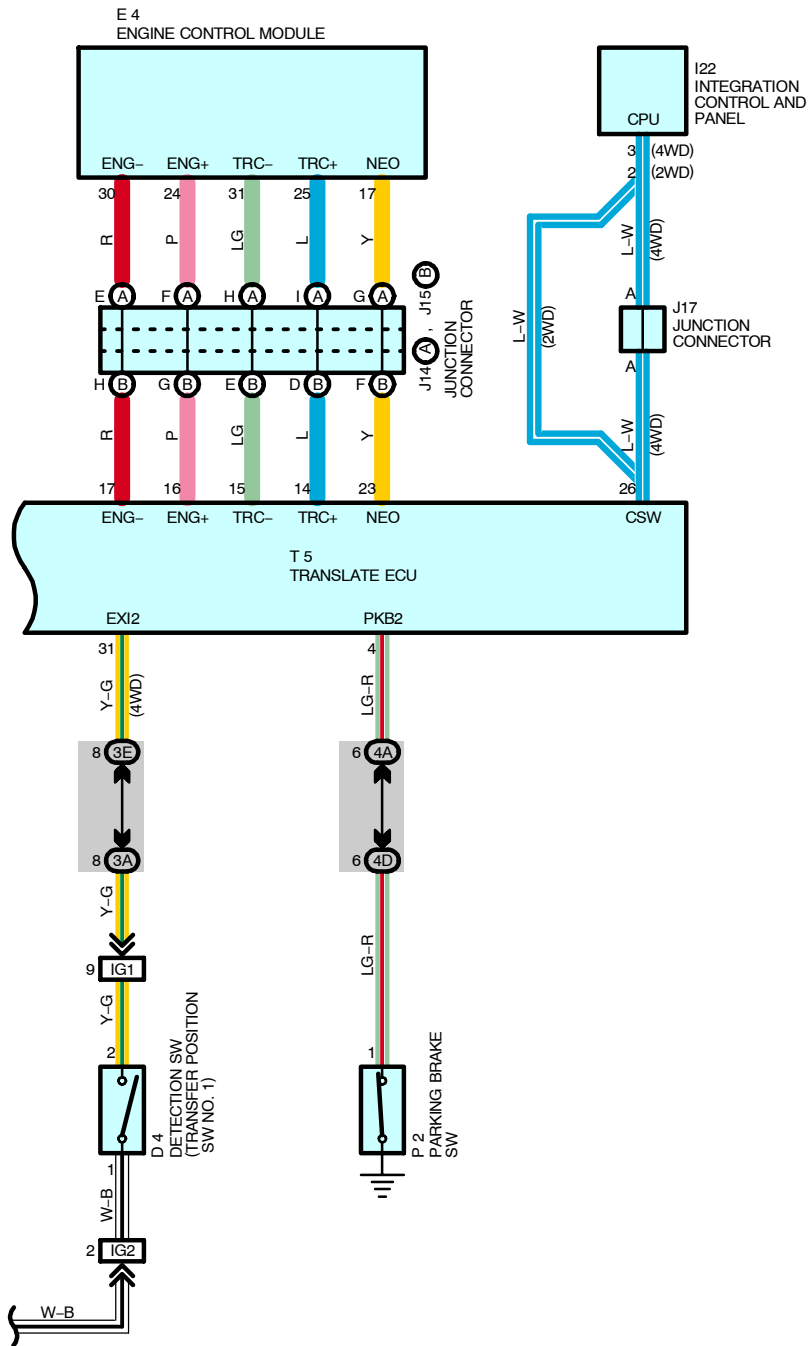


* 1 : SHIELDED

FROM POWER SOURCE SYSTEM (SEE PAGE 58)







SYSTEM OUTLINE

ABS OPERATION

This system controls the respective brake fluid pressures acting on the disc brake cylinders of the right front wheel, left front wheel, and rear wheels when the brakes are applied in a panic stop so that the wheels do not lock.

This results in improved directional stability and steerability during panic braking.

1. INPUT SIGNAL

(1) Speed sensor signal

The speed of the wheels is detected and input to TERMINALS FL+, FR+, RL+ and RR+ of the skid control ECU with actuator.

(2) Stop light SW signal

A signal is input to TERMINAL STP of the skid control ECU with actuator when the brake pedal is depressed.

2. SYSTEM OPERATION

During sudden braking, the skid control ECU with actuator which has signals input from each sensor lets the hydraulic pressure acting on each wheel cylinder escape to the reservoir.

The pump inside the skid control ECU with actuator is also operating at this time and it returns the brake fluid from the reservoir to the master cylinder, thus preventing locking of vehicle wheels.

If the skid control ECU with actuator judges that the hydraulic pressure acting on the wheel cylinder is insufficient, the current acting on the solenoid is controlled and the hydraulic pressure is increased.

Holding of the hydraulic pressure is also controlled by the ECU, by the same method as above, by repeated pressure reduction. Holding and increase are repeated to maintain vehicle stability and to improve steerability during sudden braking.

VSC OPERATION

The vehicle could be in an extreme over steering or under steering tendency due to unexpected accidents, road conditions, vehicle speed, or by other external factors. In such a case, this system automatically controls the engine output and the braking to each wheel, to decrease the extreme over steering and under steering.

* To decrease extreme over steering tendency

When the system determines that the over steering tendency is large, the system applies brakes to the outer wheels according to the degree of over steering, and creates a moment towards the outer side of the vehicle, to decrease the tendency of over steering. Also, when the brakes are applied, the vehicle speed decreases while the stability increases.

* To decrease extreme under steering tendency

When the system determines that the under steering tendency is large, the system applies brakes to the front or rear wheels according to the degree of under steering, to decrease the tendency of under steering.

When the VSC operated, the skid control ECU with actuator sends a signal and the slip indicator in the instrumental cluster will flash and a buzzer will sound to warn the driver that the tire grip is at its limit.

ACTIVE TRACTION CONTROL (4WD)

While driving with the 4WD mode, the active TRAC system helps control the spinning of the wheels which may occur when accelerating on a snowy road or during severe off-road driving, by controlling the brake fluid pressure of each wheel. The system distributes the traction lost by slipping to each wheel, which produces a strong LSD effect. When the active TRAC is in use, the skid control ECU with actuator sends a signal and the slip indicator in the instrumental cluster will flash and a buzzer will sound to notify the driver.

TRACTION CONTROL OPERATION (2WD)

Estimating the vehicle speed from the rear wheel speed, comparing it with the front, driving wheel speed and judging the grip condition of the driving wheels. From the estimated vehicle speed, target speed of the driving speed will be set. When the front, driving wheel speed exceeds the control starting speed, it judges that the tire slip is occurred and performs the fuel cut cylinder number control and brake control and then adjust to make the front wheel speed become the traction control target speed. Controlling of the traction control will be completed when the vehicle move on to the road where the driving wheels will not have a tire slip or when the driver decelerate.

SERVICE HINTS

T5 TRANSLATE ECU

- 1-GROUND : Approx. **12** volts with the ignition SW at **ON** position
- 40-GROUND : Always continuity

A6, A7 ABS SPEED SENSOR FRONT LH, RH

- 1-2 : 1.5-1.9 kΩ (20 °C, 68 °F)

A32, A33 ABS SPEED SENSOR REAR LH, RH

- 1-2 : 1.0-1.4 kΩ (20-30 °C, 68-86 °F)

S1 SKID CONTROL ECU WITH ACTUATOR

- +BM, +BS-GROUND : Always approx. **12** volts
- GND1, GND2-GROUND : Always continuity
- IG1-GROUND : Approx. **12** volts with ignition SW at **ON** position

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A6	36	F11	39	M2	37
A7	36	I22	39	M3	37
A9	36	J8	40	P1	37
A32	42	J14	A 40	P2	41
A33	42	J15	B 40	P20	37
B1	36	J17	40	S1	37
B8	38	J18	40	S7	41
C6	B 38	J28	37	S14	41
C7	C 38	J37	A 40	S25	A 37
D4	36	J38	B 40	S26	B 37
D6	39	J43	40	T5	41
E4	39	J48	A 40	V5	41
F10	36	J49	B 40	Y1	41

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1K	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3E		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4B		
4C		
4D		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG2		
IG3		
IL1	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
IL2		
BB2	52	Frame Wire and Floor No.1 Wire (Under the Front Passenger's Seat)

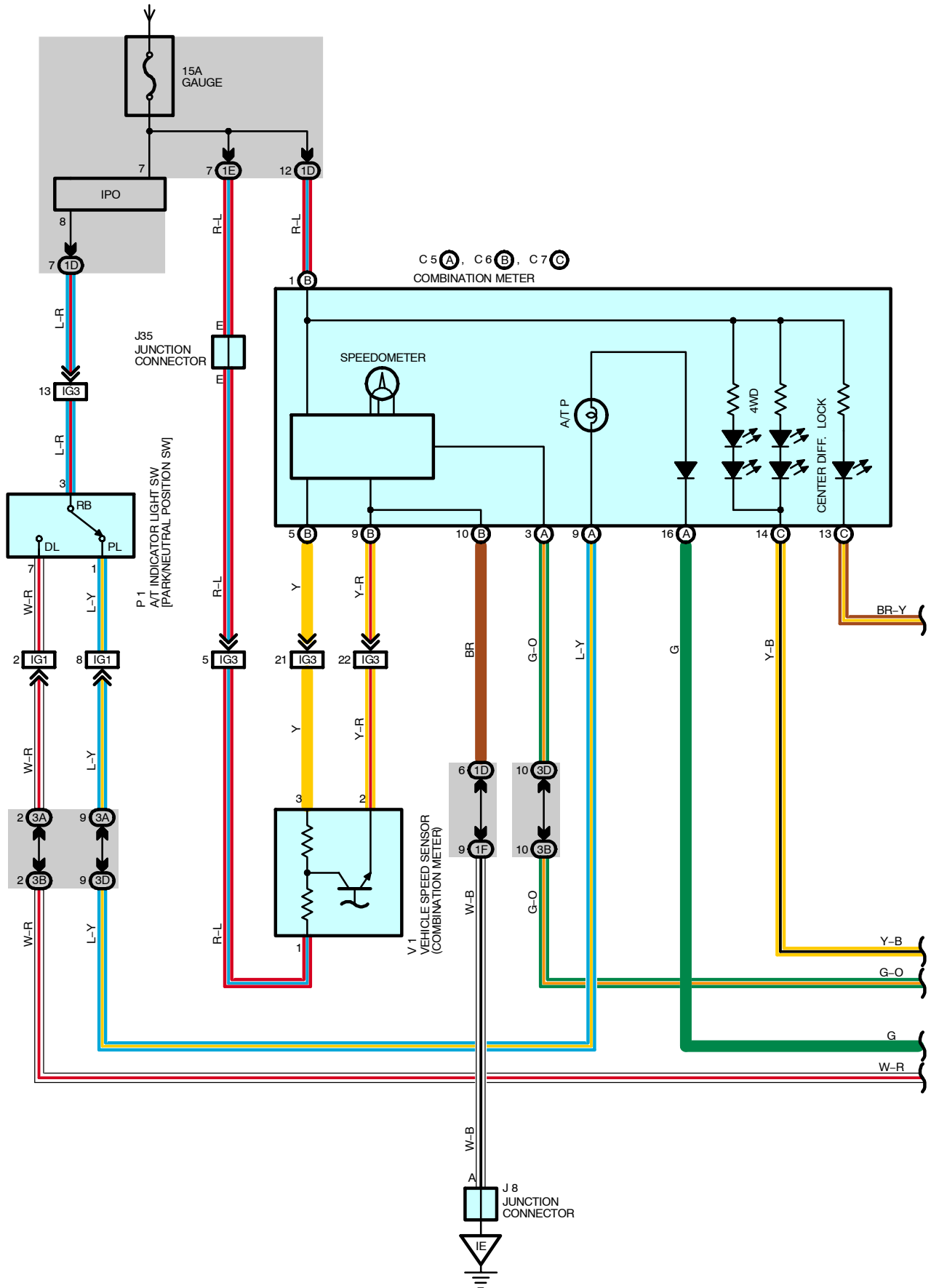
**: GROUND POINTS**

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel
IM	48	Rear Consol

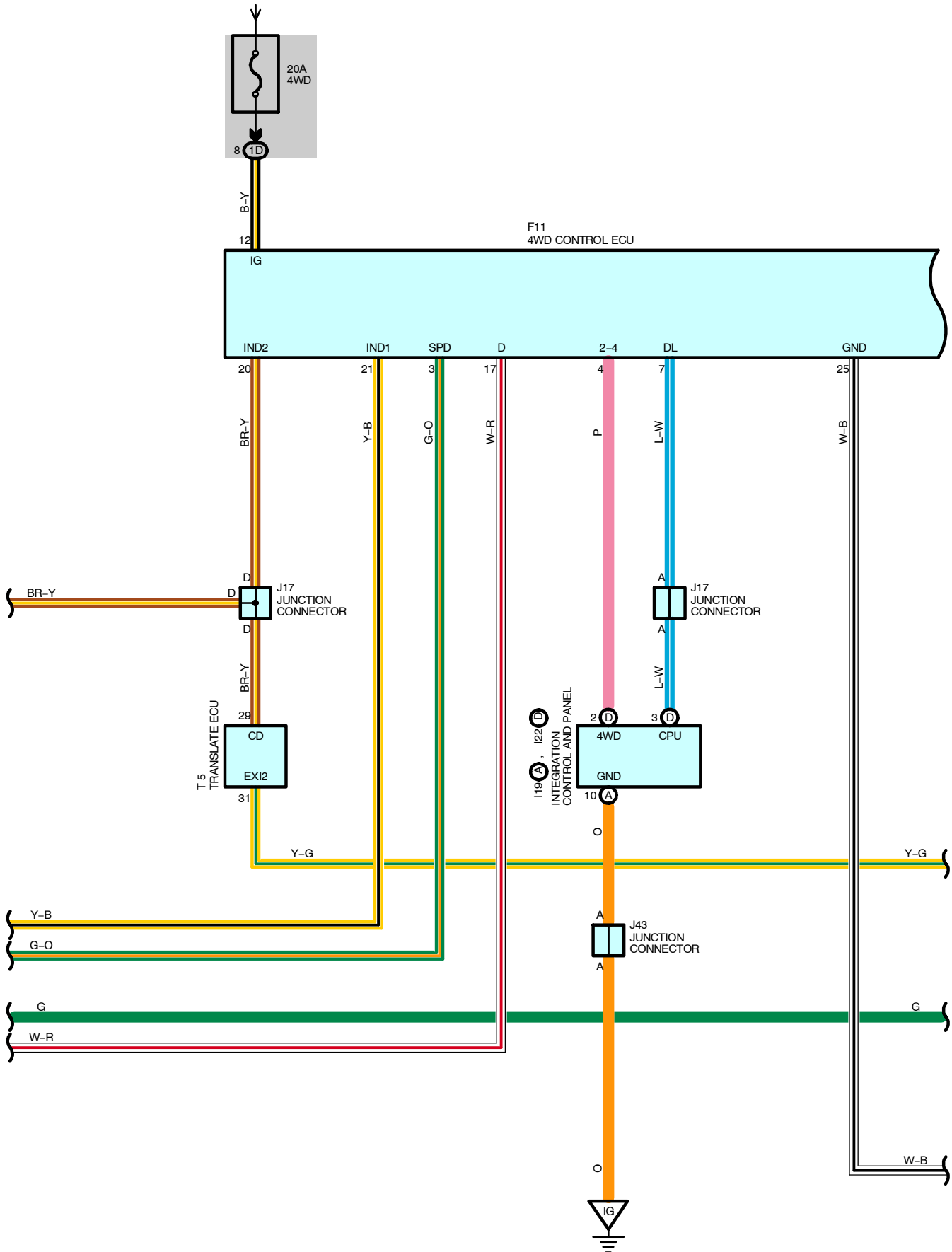
**: SPLICE POINTS**

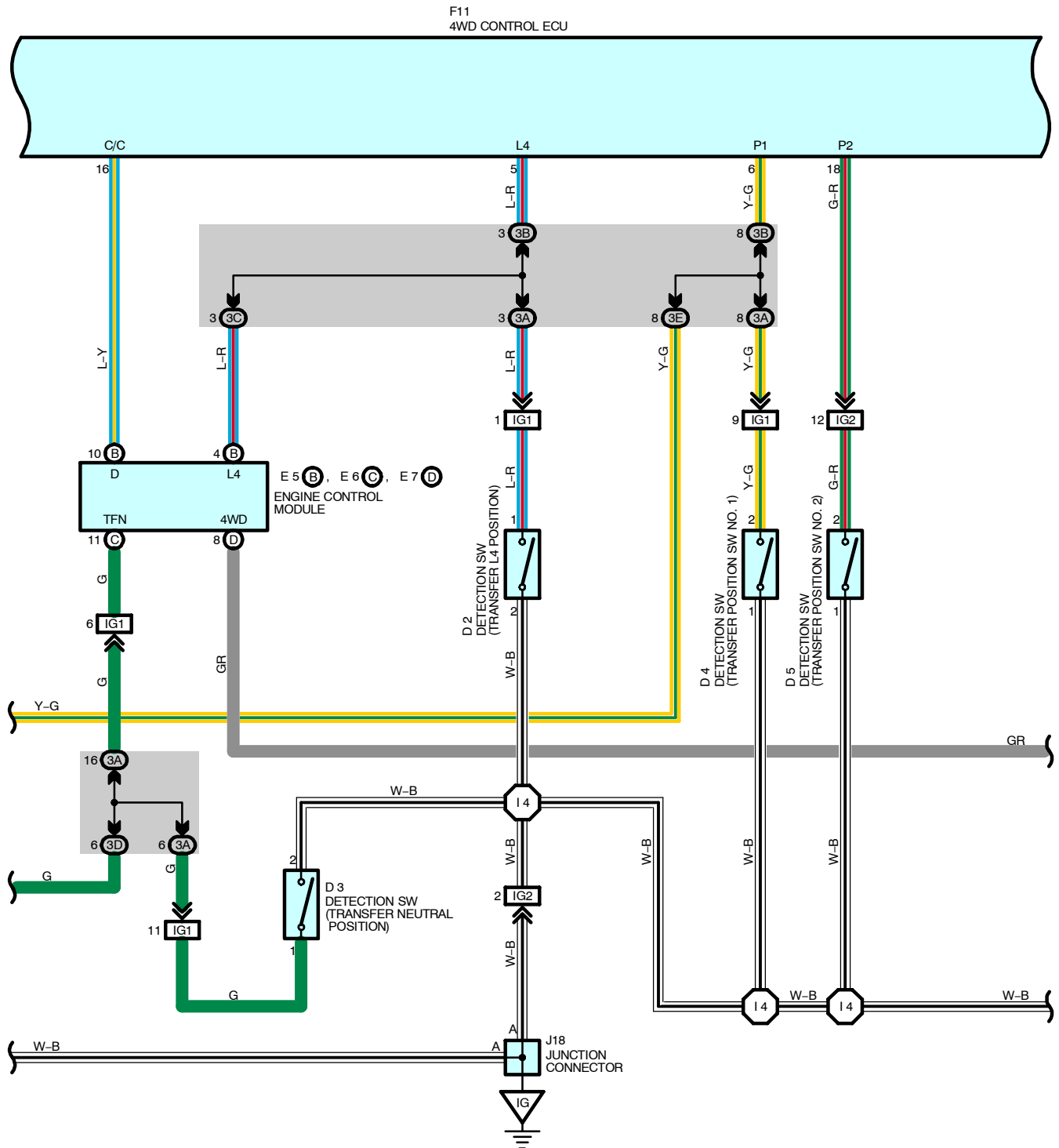
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E3	46	Engine Room Main Wire	I3	50	Cowl Wire
E4			I5		

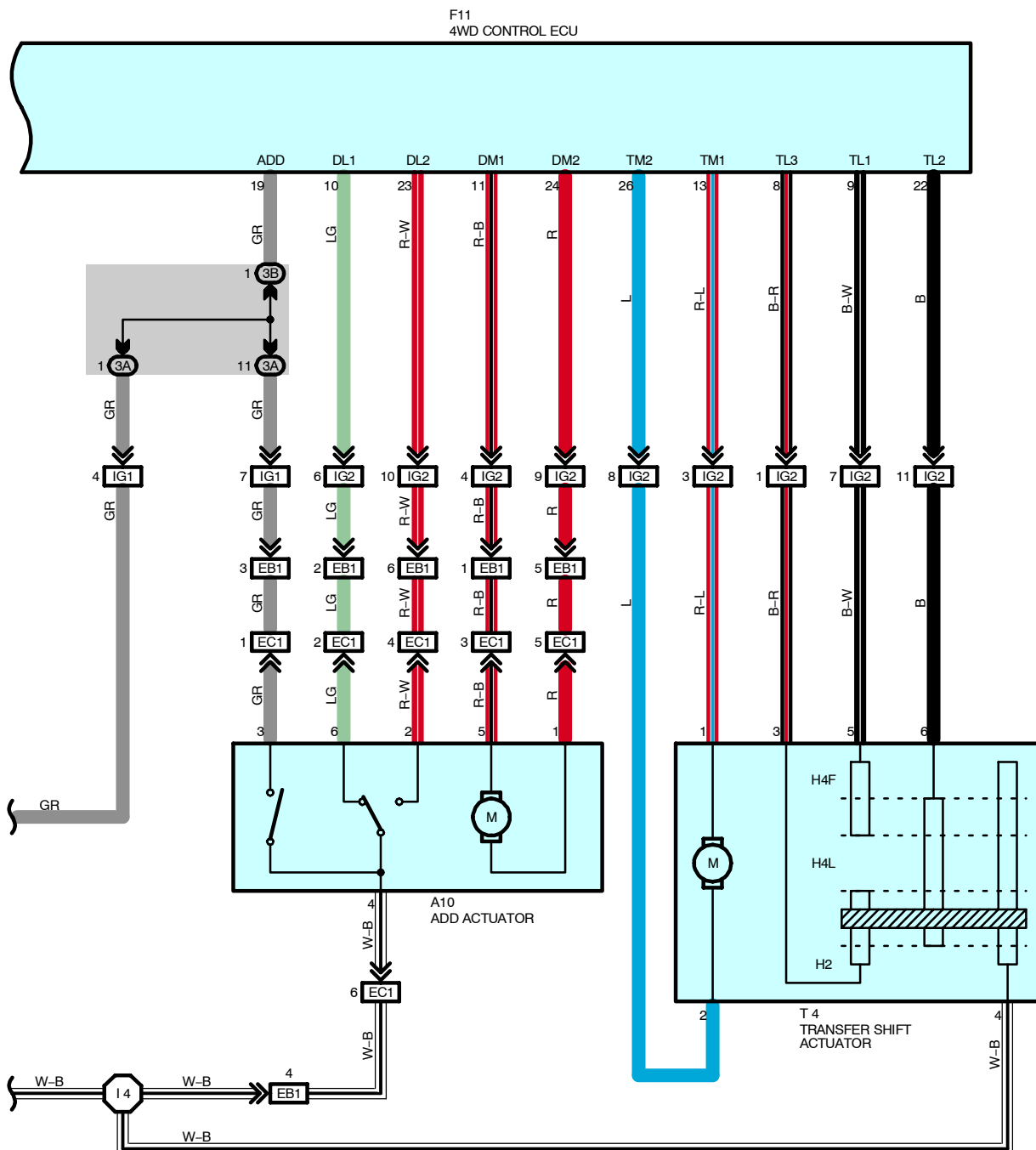
FROM POWER SOURCE SYSTEM (SEE PAGE 58)



FROM POWER SOURCE SYSTEM (SEE PAGE 58)







SERVICE HINTS

F11 4WD CONTROL ECU

12-GROUND : Approx. 12 volts with the ignition SW at **ON** position

25-GROUND : Always continuity

3-GROUND : Pulse generation with the vehicle moving

I19 (A), I22 (D) INTEGRATION CONTROL AND PANEL

(D) 2-(A) 10: Closed with the touch select 2-4 SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A10	36	E5	B	J18	40
C5	A	E6	C	J35	40
C6	B	E7	D	J43	40
C7	C	F11	39	P1	37
D2	36	I19	A	T4	37
D3	36	I22	D	T5	41
D4	36	J8	40	V1	37
D5	36	J17	40		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3B		
3C		
3D		
3E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine No.2 Wire and Engine Wire (Near the Starter)
EC1	46	Engine No.2 Wire and Differential Wire (Near the Transmission)
IG1	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG2		
IG3		

▽ : GROUND POINTS

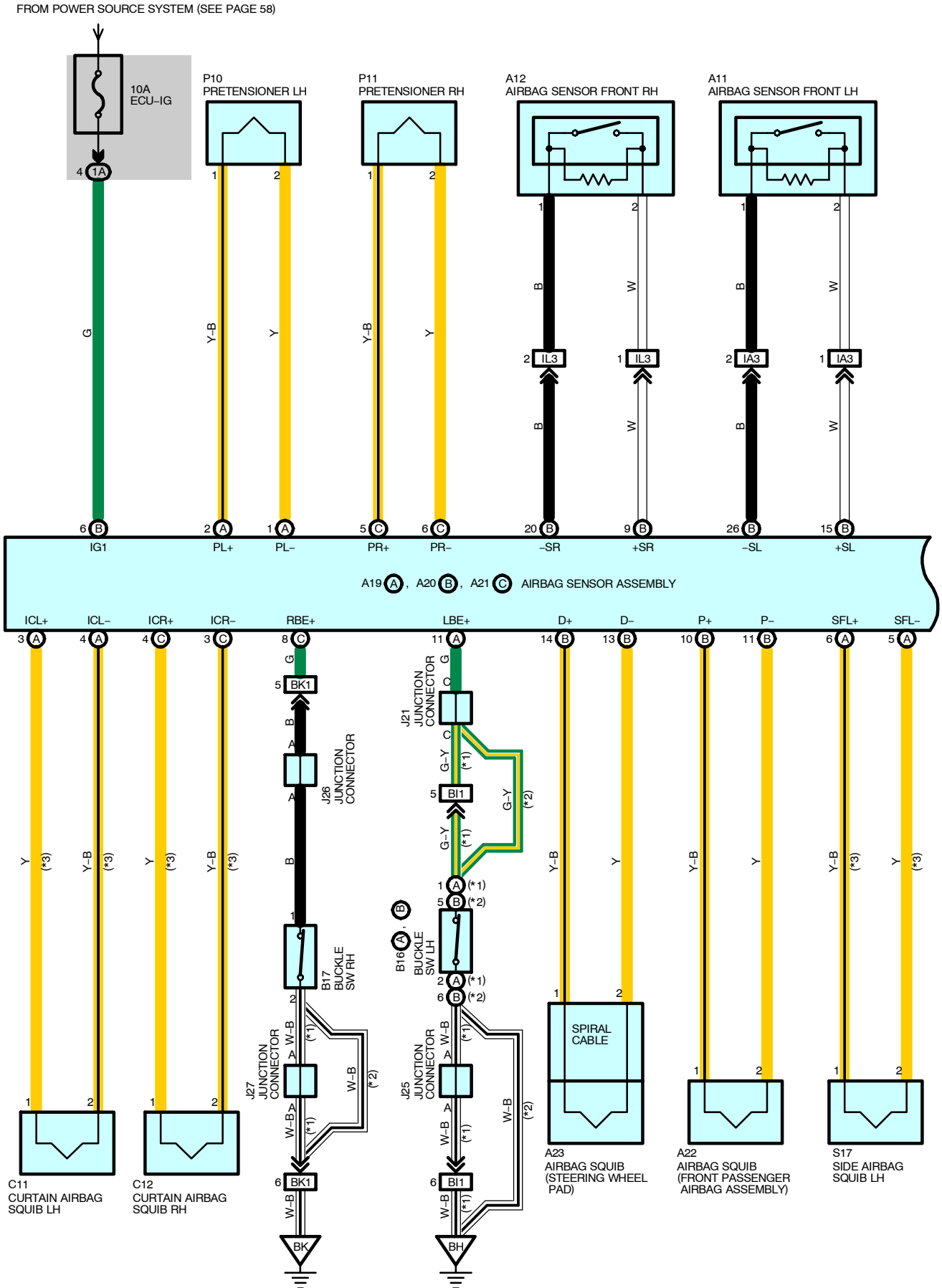
Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel

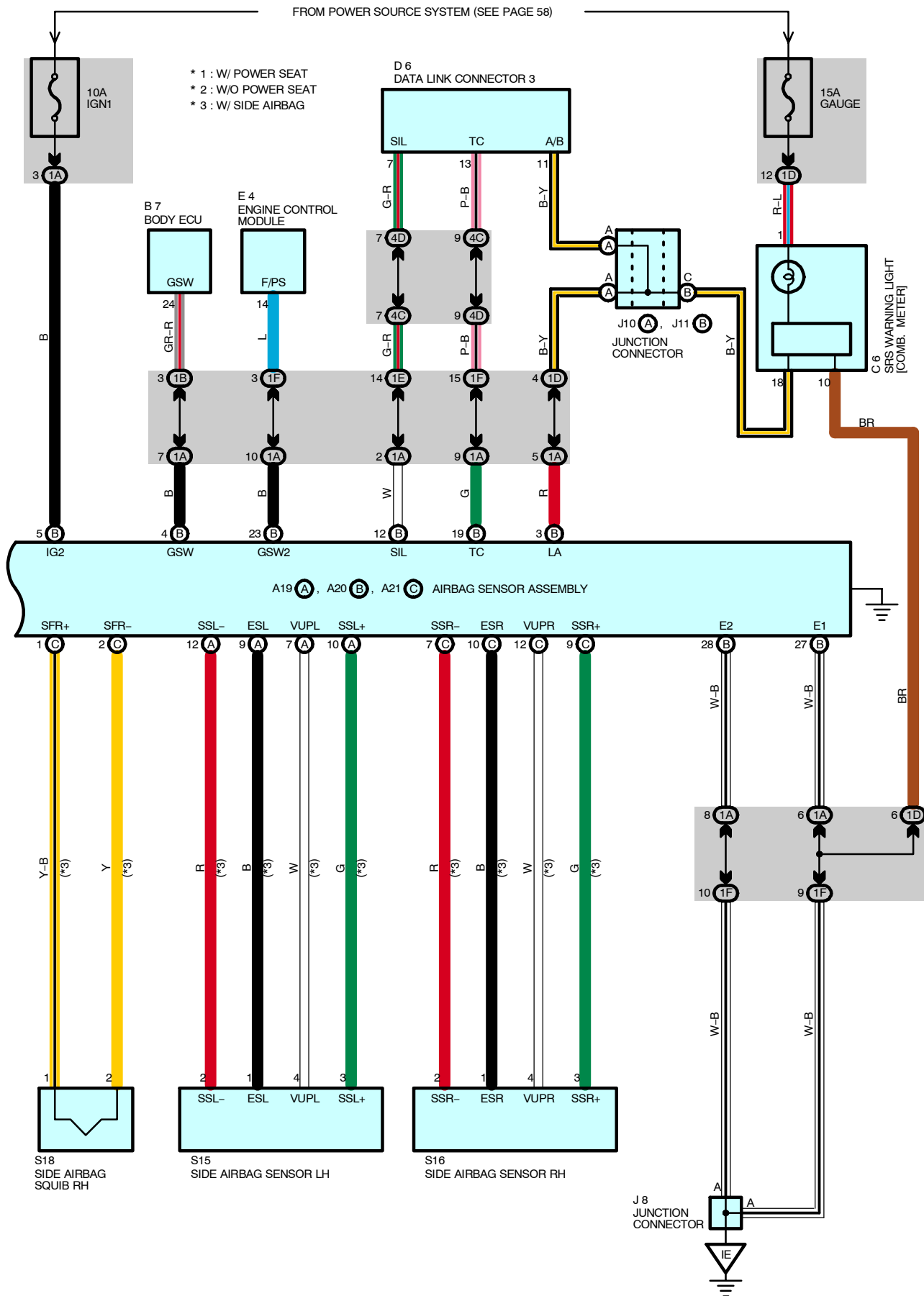
○ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I4	50	Engine Wire			

NOTICE: When inspecting or repairing the SRS, perform the operation in accordance with the following precautionary instructions and the procedure and precautions in the Repair Manual for the applicable model year.

- Malfunction symptoms of the SRS are difficult to confirm, so the DTCs become the most important source of information when troubleshooting. When troubleshooting the SRS, always inspect the DTCs before disconnecting the battery.
- **Work must be started after 90 seconds from when the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**
(The SRS is equipped with a back-up power source so that if work is started within 90 seconds from disconnecting the negative (-) terminal cable of the battery, the SRS may be deployed.)
- When the negative (-) terminal cable is disconnected from the battery, the memory of the clock and audio system will be canceled. So before starting work, make a record of the contents memorized in the audio memory system. When work is finished, reset the audio systems as they were before and adjust the clock. To avoid erasing the memory in each memory system, never use a back-up power supply from outside the vehicle.
- Before repairs, remove the airbag sensor if shocks are likely to be applied to the sensor during repairs.
- Do not expose the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, curtain airbag assembly, front airbag sensor assembly or side airbag sensor assembly directly to hot air or flames.
- Even in cases of a minor collision where the SRS does not deploy, the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, curtain airbag assembly, front airbag sensor assembly and side airbag sensor assembly should be inspected.
- Never use SRS parts from another vehicle. When replacing parts, replace them with new parts.
- Never disassemble and repair the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, curtain airbag assembly, front airbag sensor assembly or side airbag sensor assembly in order to reuse it.
- If the steering wheel pad, front passenger airbag assembly, side airbag assembly, seat belt pretensioner, airbag sensor assembly, curtain airbag assembly, front airbag sensor assembly or side airbag sensor assembly has been dropped, or if there are cracks, dents or other defects in the case, bracket or connector, replace them with new ones.
- Use a volt/ohmmeter with high impedance (10 k Ω /V minimum) for troubleshooting the system's electrical circuits.
- Information labels are attached to the periphery of the SRS components. Follow the instructions on the notices.
- After work on the SRS is completed, perform the SRS warning light check or SRS side airbag warning light check.
- If the vehicle is equipped with a mobile communication system, refer to the precaution in the IN section of the Repair Manual.





SYSTEM OUTLINE

The SRS is a supplemental protection device to the seat belts, provided to protect the occupants inside the vehicle. When the ignition SW is turned ON, the current flows from IGN1 fuse to airbag sensor assembly TERMINAL IG2, and from ECU-IG fuse to airbag sensor assembly TERMINAL IG1.

In case the airbag sensor assembly detects deceleration of speed caused by front collision and determines that the airbag should be ignited, current flows to the driver's seat and front passenger's seat airbag and pretensioner squib, and the airbags are ignited.

At the same time, door unlock signal is output to the body ECU, and engine fuel cut signal is output to the engine control module.

In case the side airbag sensor detects deceleration of speed caused by side collision and determines that the airbag should be ignited, current flows to the side airbag and curtain shield airbag squib, and the airbags are ignited.

At the same time, door unlock signal is output to the body ECU, and engine fuel cut signal is output to the engine control module.

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A11	36	B17	44	J25	44
A12	36	C6	38	J26	44
A19	A 38	C11	42	J27	44
A20	B 38	C12	42	P10	43
A21	C 38	D6	39	P11	43
A22	38	E4	39	S15	43
A23	38	J8	40	S16	43
B7	38	J10	A 40	S17	43
B16	A 44	J11	B 40	S18	43
	B 42	J21	42		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

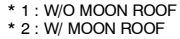
Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D		
1E		
1F		
4C	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA3	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IL3	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
BI1	54	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BK1	54	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
BH	52	Left Side of Center Pillar
BK	52	Right Side of Center Pillar



SERVICE HINTS

O4 (A), O5 (B) OVERHEAD MODULE

(A) 4, (B) 6-GROUND : Approx. 12 volts with the ignition SW at **ON** position

(A) 13, (B) 1-GROUND : Always continuity

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
C5	A	38	J8		40	O5	B	43
C6	B	38	O4	A	43			

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

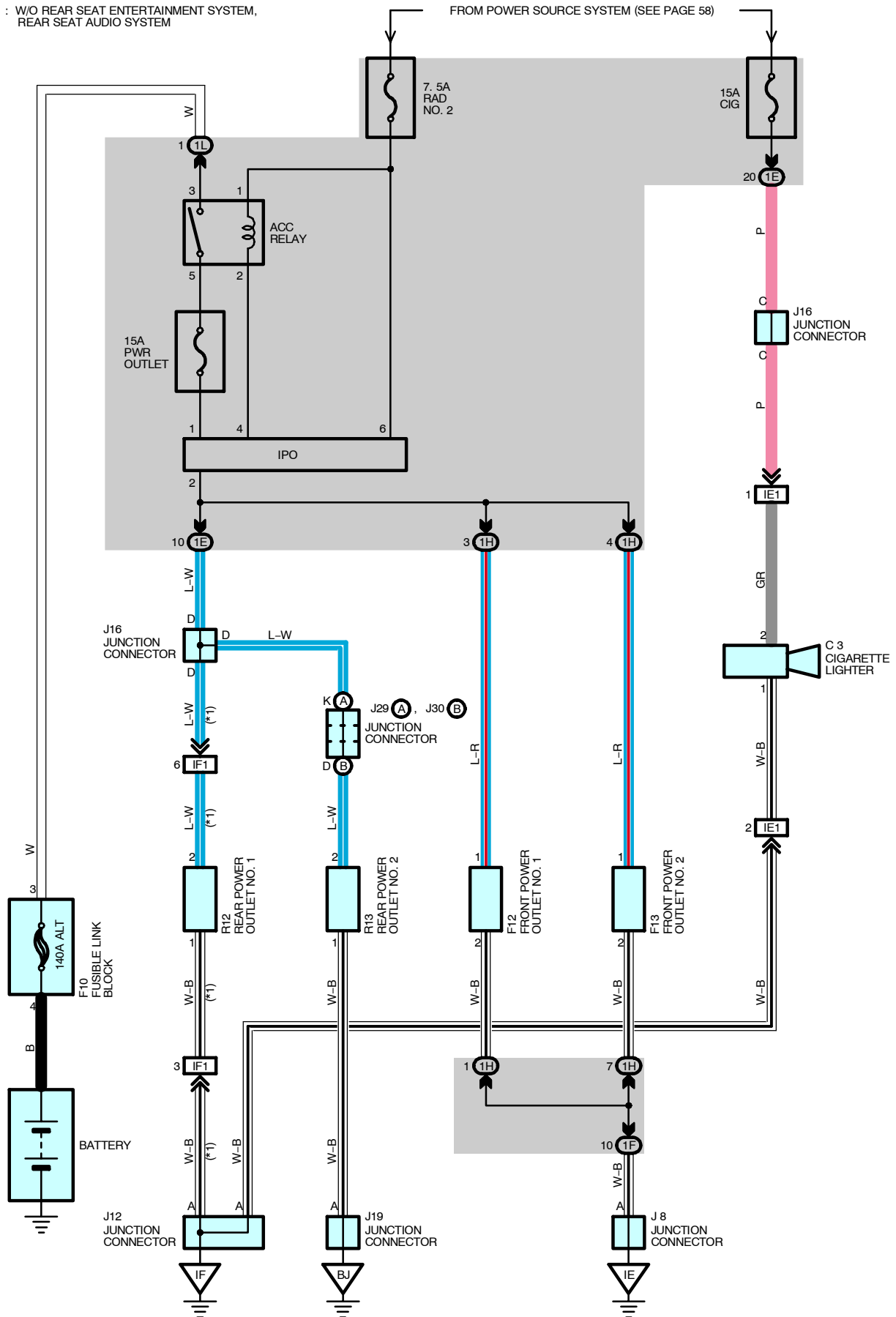
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
ID1	48	Cowl Wire and Roof Wire (Left Side of Instrument Panel)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

CIGARETTE LIGHTER AND POWER OUTLET (12V)

*1 : W/O REAR SEAT ENTERTAINMENT SYSTEM,
REAR SEAT AUDIO SYSTEM



SERVICE HINTS

C3 CIGARETTE LIGHTER

2-GROUND : Approx. 12 volts with the ignition SW at **ON** or **ACC** position

1-GROUND : Always continuity

F12, F13 FRONT POWER OUTLET NO.1, NO.2

1-GROUND : Approx. 12 volts with the ignition SW at **ON** or **ACC** position

2-GROUND : Always continuity

R12, R13 REAR POWER OUTLET NO.1, NO.2

2-GROUND : Approx. 12 volts with the ignition SW at **ON** or **ACC** position

1-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C3	38	J8	40	J29	A 40
F10	36	J12	40	J30	B 40
F12	39	J16	40	R12	41
F13	39	J19	42	R13	43

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1H		
1L	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)

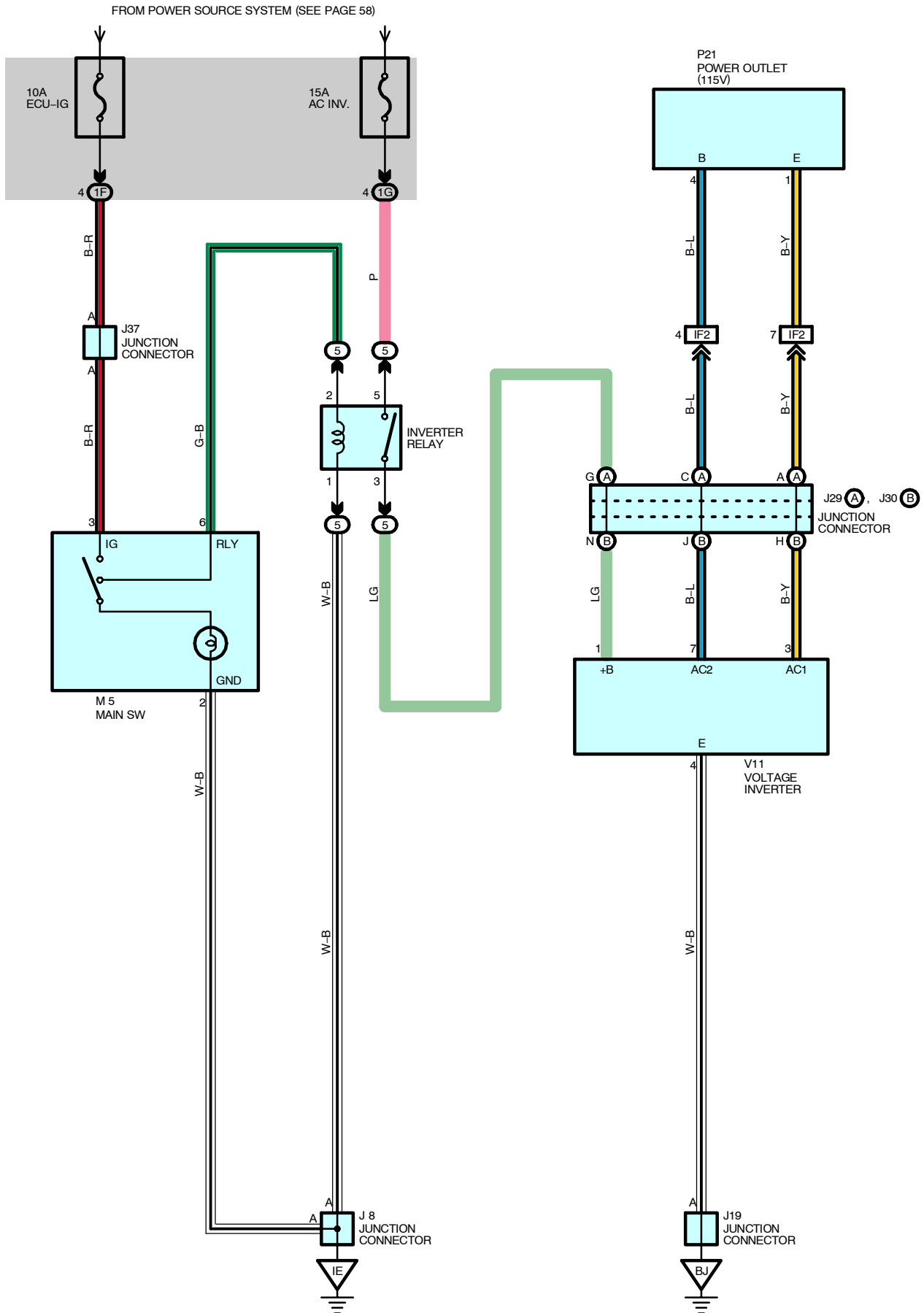
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IE1	48	Cigarette Lighter Wire and Cowl Wire (Instrument Panel Brace LH)
IF1	48	Console Box Wire and Cowl Wire (Rear Console)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
BJ	52	Left Side of Rear Quarter Panel

POWER OUTLET (115V)



SERVICE HINTS

INVERTER RELAY

5-3 : Closed with the ignition SW at **ON** position and the main SW at on

: PARTS LOCATION

Code		See Page		Code		See Page		Code		See Page	
J8		40		J30	B	40		P21	41		
J19		42		J37		40		V11	43		
J29	A	40		M5		41					

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
5	23	Driver Side R/B (Under the Instrument Panel J/B)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

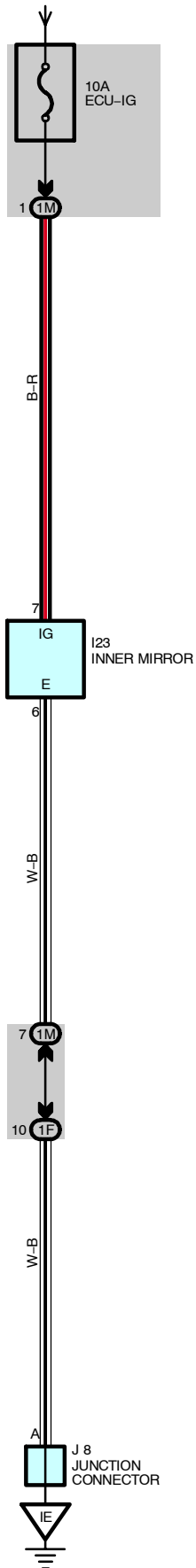
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	48	Console Box Wire and Cowl Wire (Rear Console)

: GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
BJ	52	Left Side of Rear Quarter Panel

AUTOMATIC GLARE-RESISTANT EC MIRROR

FROM POWER SOURCE SYSTEM (SEE PAGE 58)



SERVICE HINTS

I23 INNER MIRROR

7-GROUND : Approx. 12 volts with the ignition SW at **ON** position

6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
I23	42	J8	40		

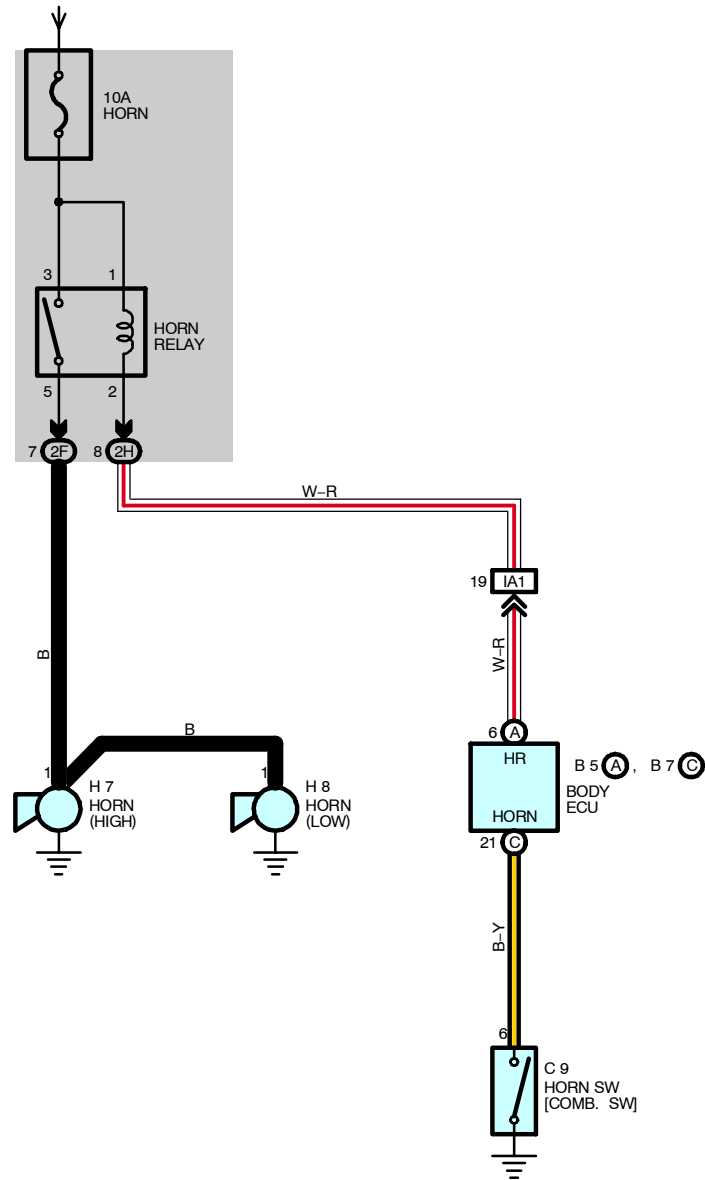
○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

FROM POWER SOURCE SYSTEM (SEE PAGE 58)



SERVICE HINTS

C9 HORN SW [COMB. SW]

6-GROUND : Continuity with the horn SW on

: PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B5	A	38	C9	38		H8	36	
B7	C	38	H7	36				

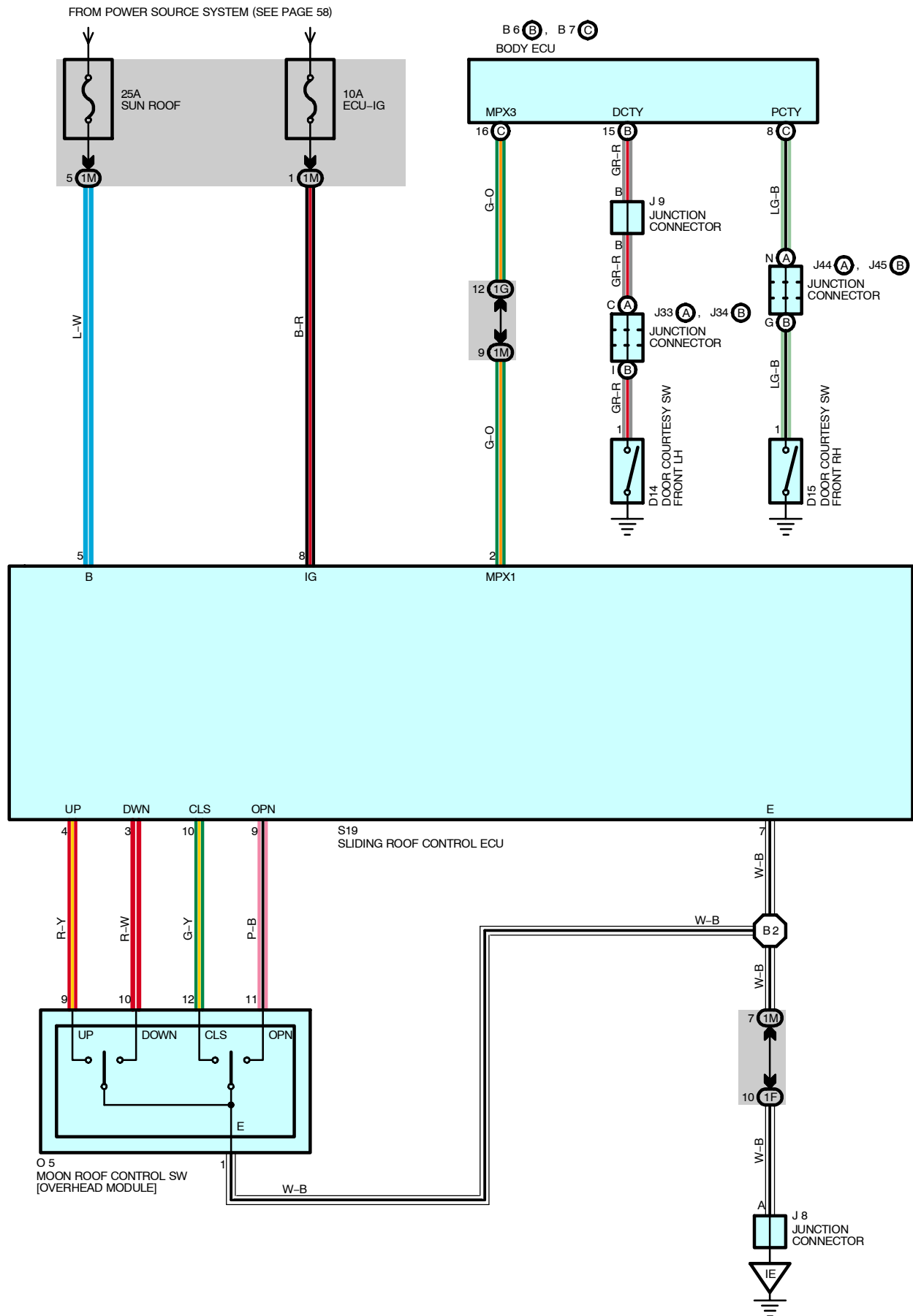
: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)

MOON ROOF



SYSTEM OUTLINE

The moon roof can be operated by the moon roof control SW, when the ignition SW is at ON position or during the key-off operation.

JAM PROTECTION FUNCTION

During close or tilt down operation, if the system detects a load, the motor rotates in the opposite direction.

KEY-OFF OPERATION

With all the doors closed, within 43 seconds after the ignition switch has been turned to OFF from ON, the moon roof can be operated. However, if the front door is opened, the moon roof cannot be operated.

SERVICE HINTS

S19 SLIDING ROOF CONTROL ECU

5-GROUND : Always approx. 12 volts

8-GROUND : Approx. 12 volts with the ignition SW at **ON** position

: Approx. 12 volts with the key off moon roof operation

7-GROUND : Always continuity

O5 MOON ROOF CONTROL SW [OVERHEAD MODULE]

9-1 : Closed with the moon roof control SW at **UP** position

10-1 : Closed with the moon roof control SW at **DOWN** position

11-1 : Closed with the moon roof control SW at **OPEN** position

12-1 : Closed with the moon roof control SW at **CLOSE** position

1-GROUND : Always continuity

○ : PARTS LOCATION

Code		See Page	Code		See Page	Code		See Page
B6	B	38	J8		40	J44	A	40
B7	C	38	J9		40	J45	B	40
D14		42	J33	A	40	O5		43
D15		42	J34	B	40	S19		43

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel

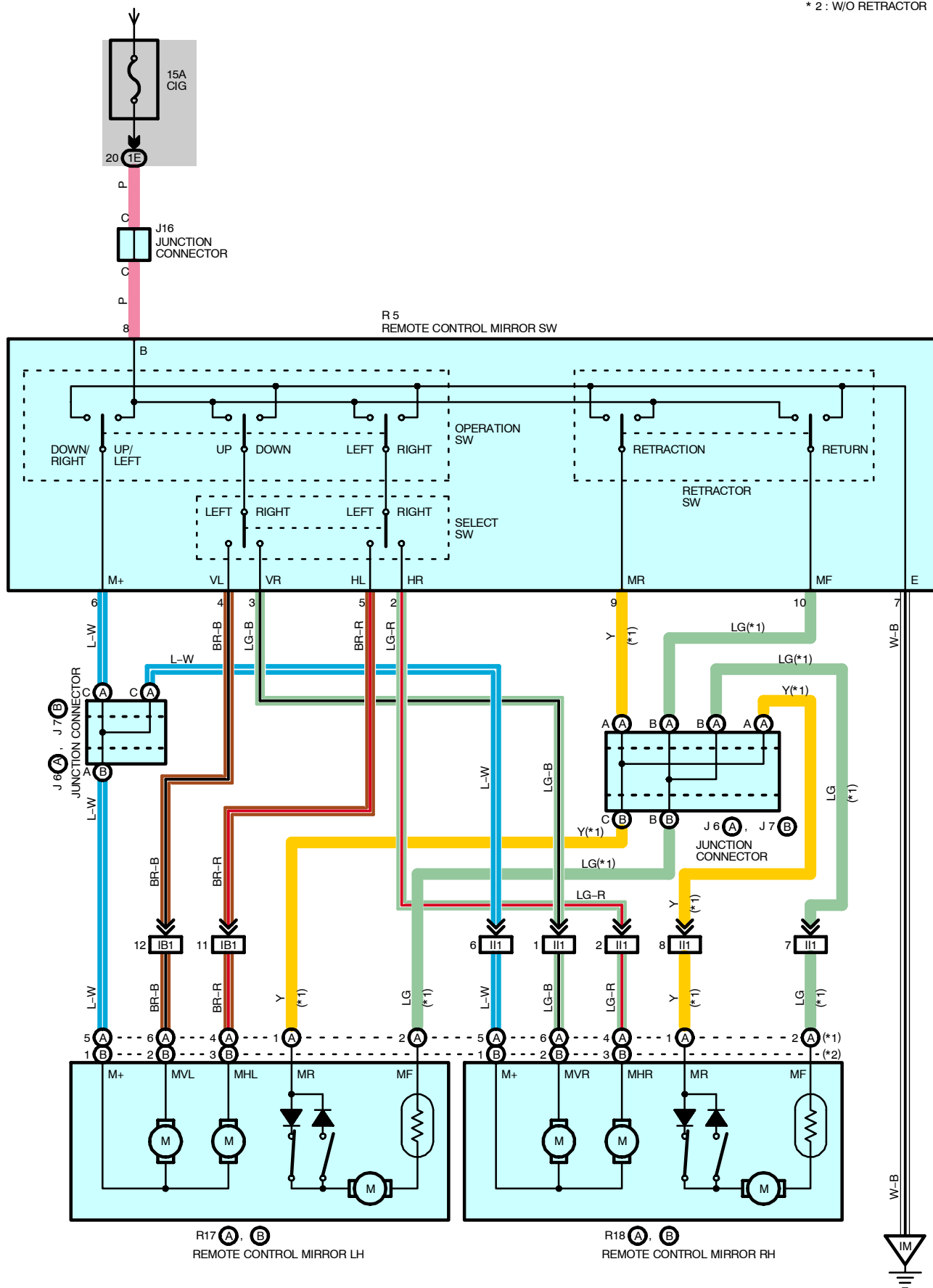
○ : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
B2	52	Roof Wire			

REMOTE CONTROL MIRROR

FROM POWER SOURCE SYSTEM (SEE PAGE 58)

* 1 : W/ RETRACTOR
* 2 : W/O RETRACTOR



SERVICE HINTS

R5 REMOTE CONTROL MIRROR SW

- 8-6 : Continuity with the operation SW at **UP** or **LEFT** position
- 6-7 : Continuity with the operation SW at **DOWN** or **RIGHT** position
- 8-9, 10-7 : Continuity with the retractor SW at **RETRACTION** position
- 8-10, 9-7 : Continuity with the retractor SW at **RETURN** position
- 8-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position
- 7-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J6	A	40	R5	41	
J7	B	40	R17	A	43
J16	40		B	43	

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)

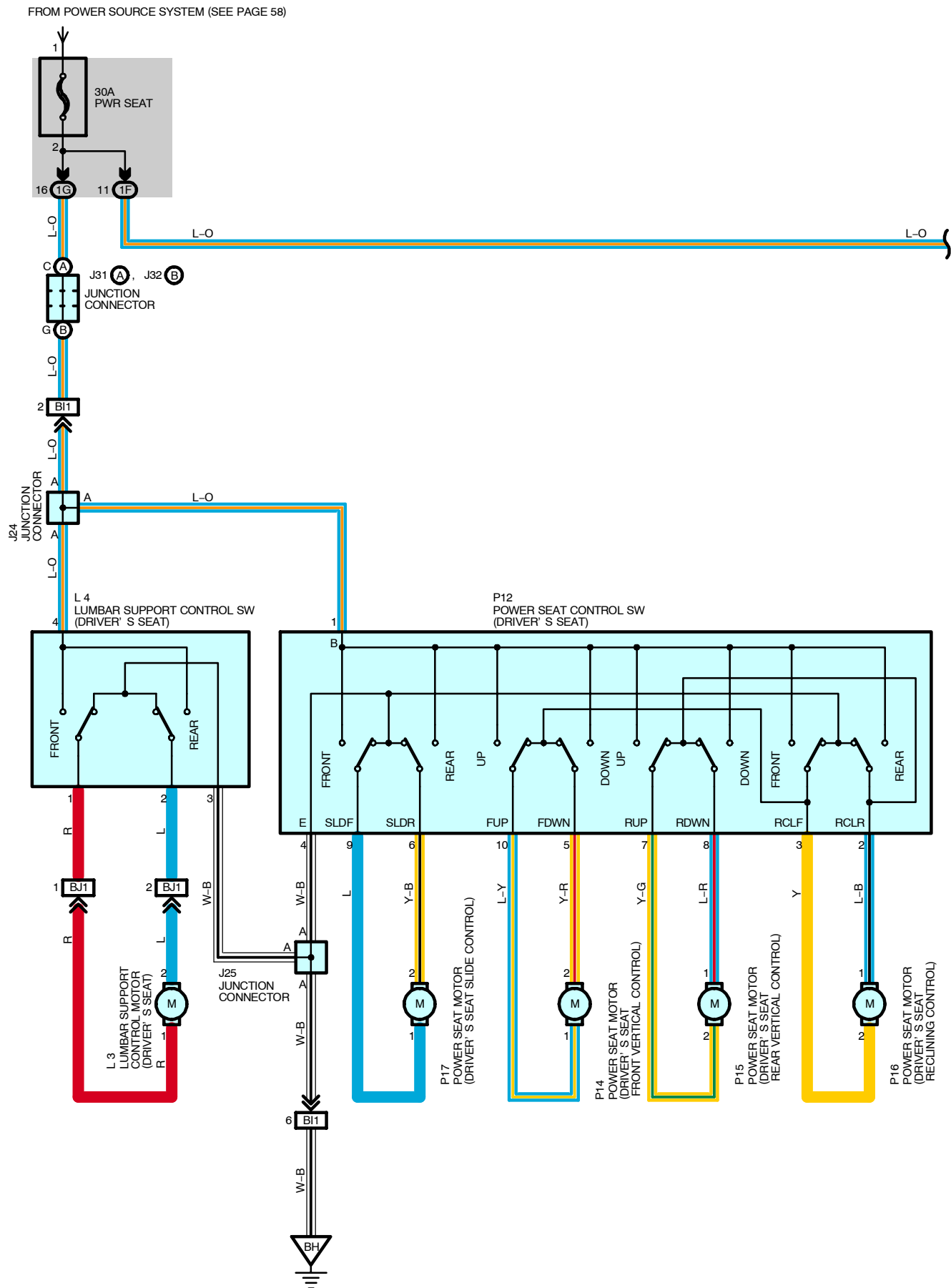
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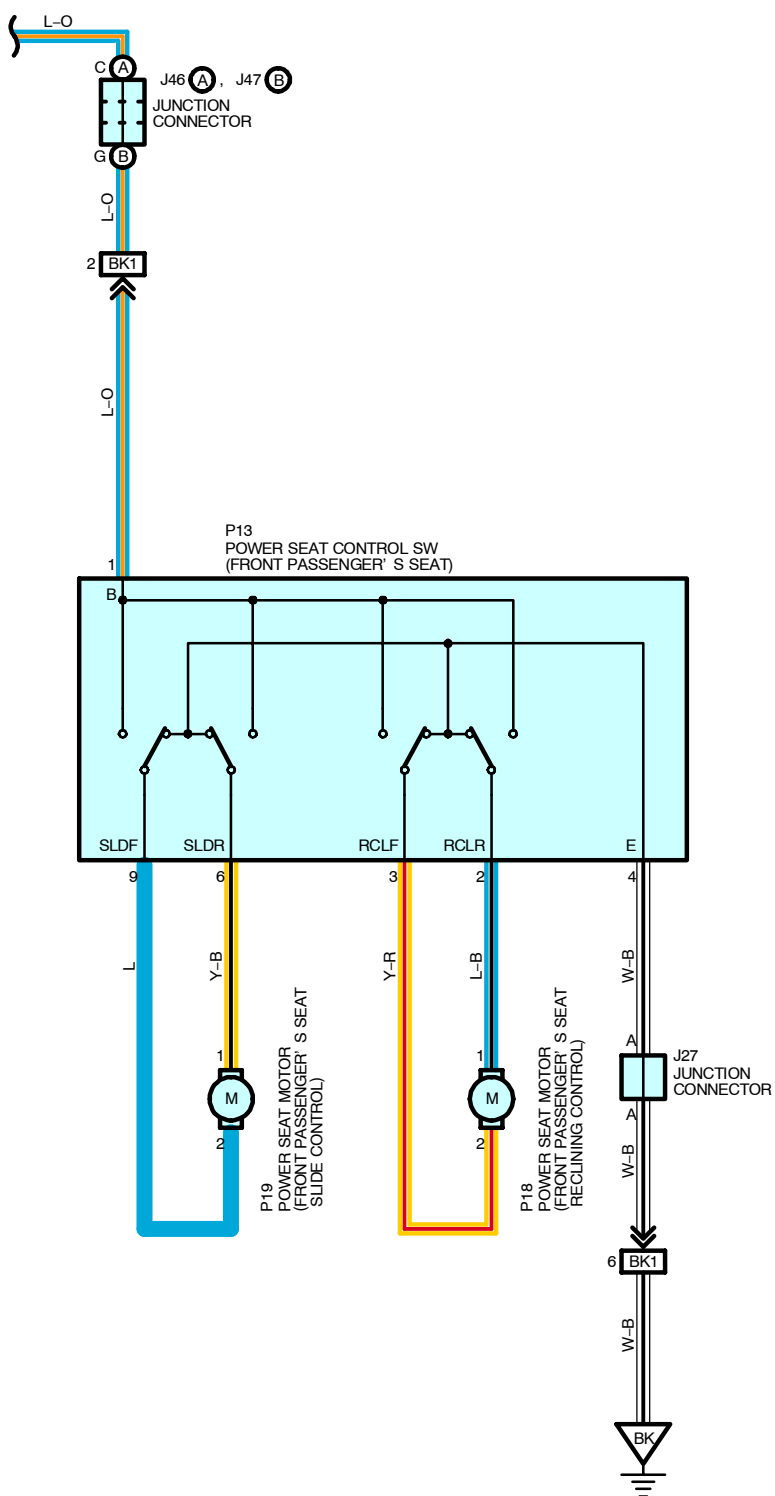
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
II1	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IM	48	Rear Consol

POWER SEAT





POWER SEAT

SERVICE HINTS

P12 POWER SEAT CONTROL SW (DRIVER'S SEAT)

- 1-9 : Closed with the driver's seat at front slide operation
- 1-6 : Closed with the driver's seat at rear slide operation
- 1-3 : Closed with the driver's seat at front reclining operation
- 1-2 : Closed with the driver's seat at rear reclining operation
- 1-10 : Closed with the driver's seat at front vertical up operation
- 1-5 : Closed with the driver's seat at front vertical down operation
- 1-7 : Closed with the driver's seat at rear vertical up operation
- 1-8 : Closed with the driver's seat at rear vertical down operation
- 4-GROUND : Always continuity

P13 POWER SEAT CONTROL SW (FRONT PASSENGER'S SEAT)

- 1-9 : Closed with the front passenger's seat at front slide operation
- 1-6 : Closed with the front passenger's seat at rear slide operation
- 1-3 : Closed with the front passenger's seat at front reclining operation
- 1-2 : Closed with the front passenger's seat at rear reclining operation
- 4-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J24	44	J47	B 40	P15	44
J25	44	L3	44	P16	44
J27	44	L4	44	P17	44
J31	A 40	P12	44	P18	44
J32	B 40	P13	44	P19	44
J46	A 40	P14	44		

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		

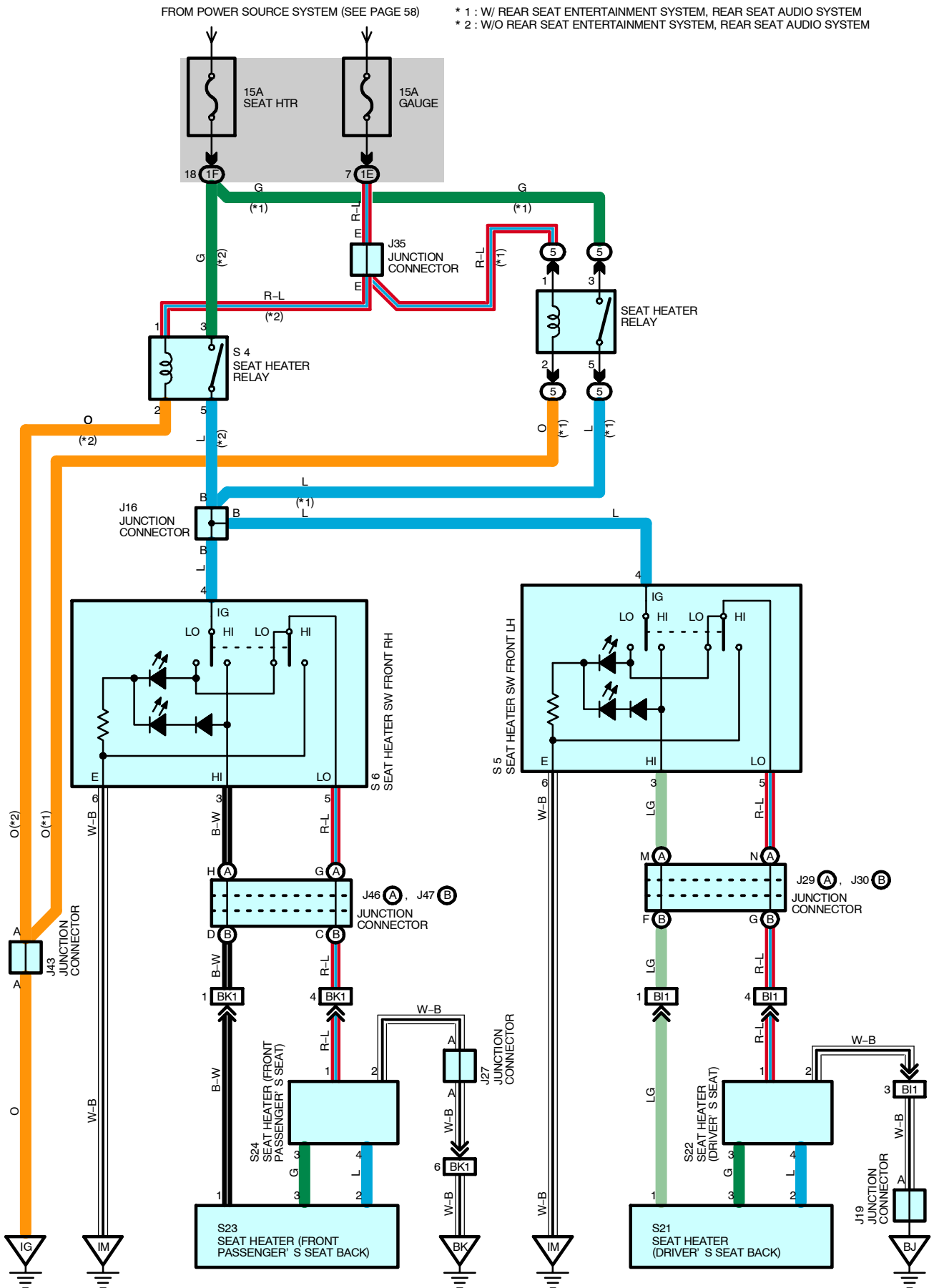
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BI1	54	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BJ1	54	Seat No.2 Wire and Seat No.2 Wire (Driver's Seat Back)
BK1	54	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
BH	52	Left Side of Center Pillar
BK	52	Right Side of Center Pillar

SEAT HEATER



SERVICE HINTS

S5, S6 SEAT HEATER SW FRONT LH, RH

4-GROUND : Approx. 12 volts with the ignition SW at **ON** position

6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J16	40	J43	40	S21	44
J19	42	J46	A	S22	44
J27	44	J47	B	S23	44
J29	A	S4	41	S24	44
J30	B	S5	41		
J35	40	S6	41		

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
5	23	Driver Side R/B (Under the Instrument Panel J/B)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		

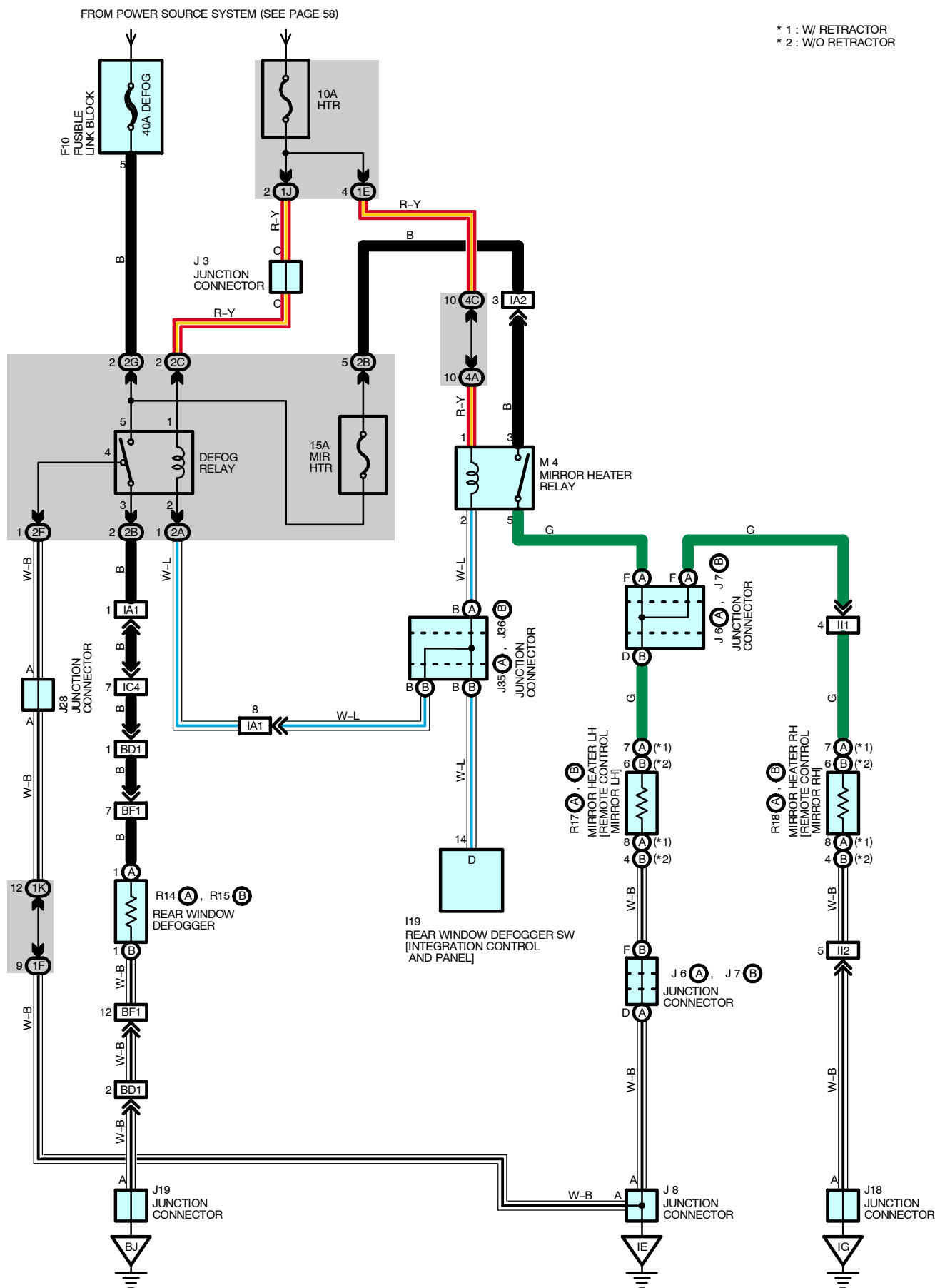
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
BI1	54	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BK1	54	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IG	48	Right Kick Panel
IM	48	Rear Consol
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

REAR WINDOW DEFOGGER AND MIRROR HEATER



SERVICE HINTS

DEFOG RELAY

5-3 : Closed with the ignition SW at **ON** position and rear window defogger SW on

M4 MIRROR HEATER RELAY

5-3 : Closed with the ignition SW at **ON** position and rear window defogger SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
F10	36	J18	40	R14	A 43
I19	39	J19	42	R15	B 43
J3	37	J28	37	R17	A 43
J6	A 40	J35	A 40	R17	B 43
J7	B 40	J36	B 40	R18	A 43
J8	40	M4	41	R18	B 43

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
1K		
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
2F		
2G		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		

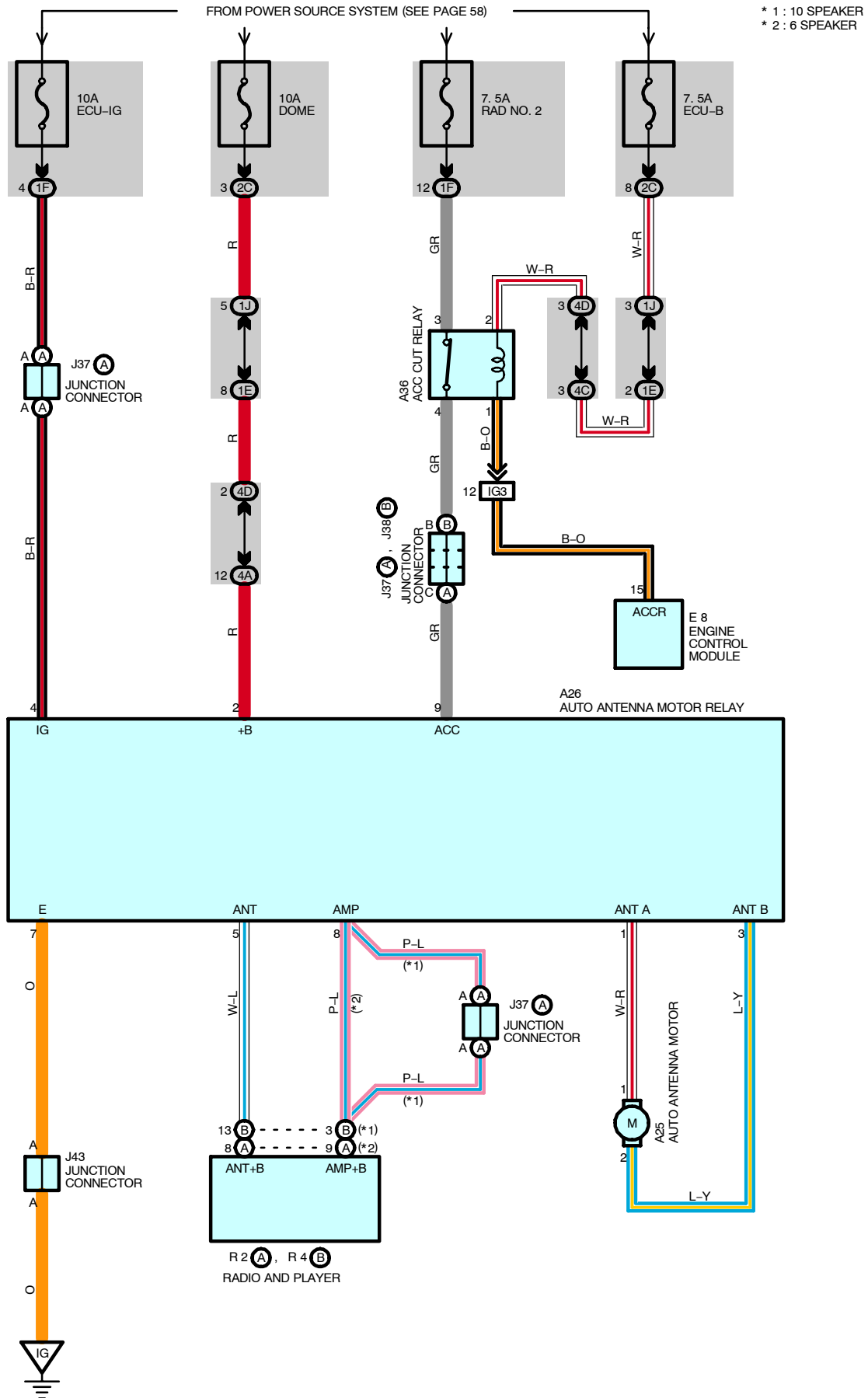
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IC4	48	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
II1	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
II2		
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)

▽ : GROUND POINTS

Code	See Page	Ground Points Location
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BJ	52	Left Side of Rear Quarter Panel

AUTO ANTENNA



SERVICE HINTS

A26 AUTO ANTENNA MOTOR RELAY

2-GROUND : Always approx. **12** volts

4-GROUND : Approx. **12** volts with the ignition SW at **ON** position

9-GROUND : Approx. **12** volts with the ignition SW at **ACC** or **ON** position and acc cut relay not operated

7-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code		See Page	Code		See Page
A25	38	E8		39	J43		40
A26	38	J37	A	40	R2	A	41
A36	38	J38	B	40	R4	B	41

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		
4D		

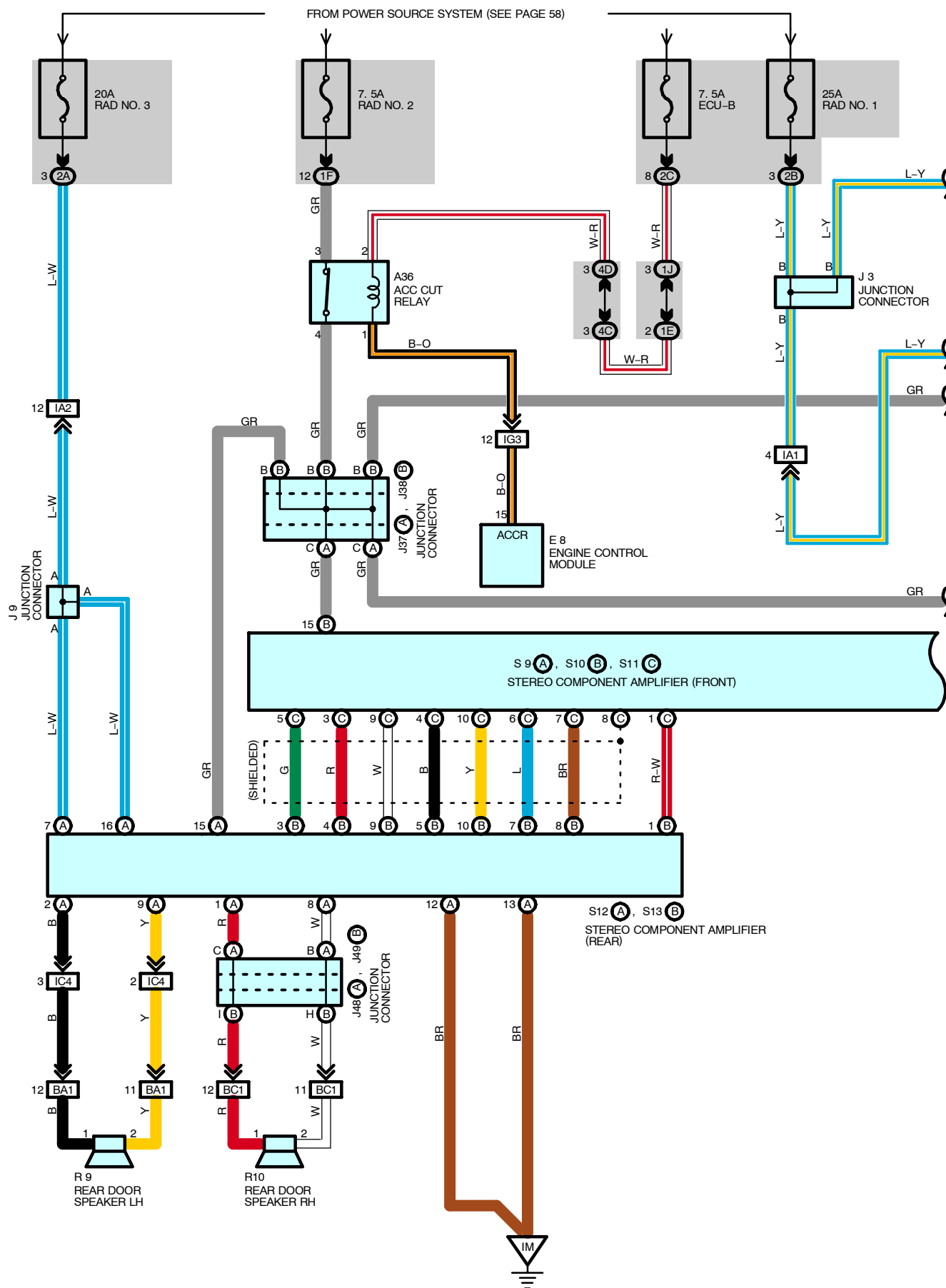
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

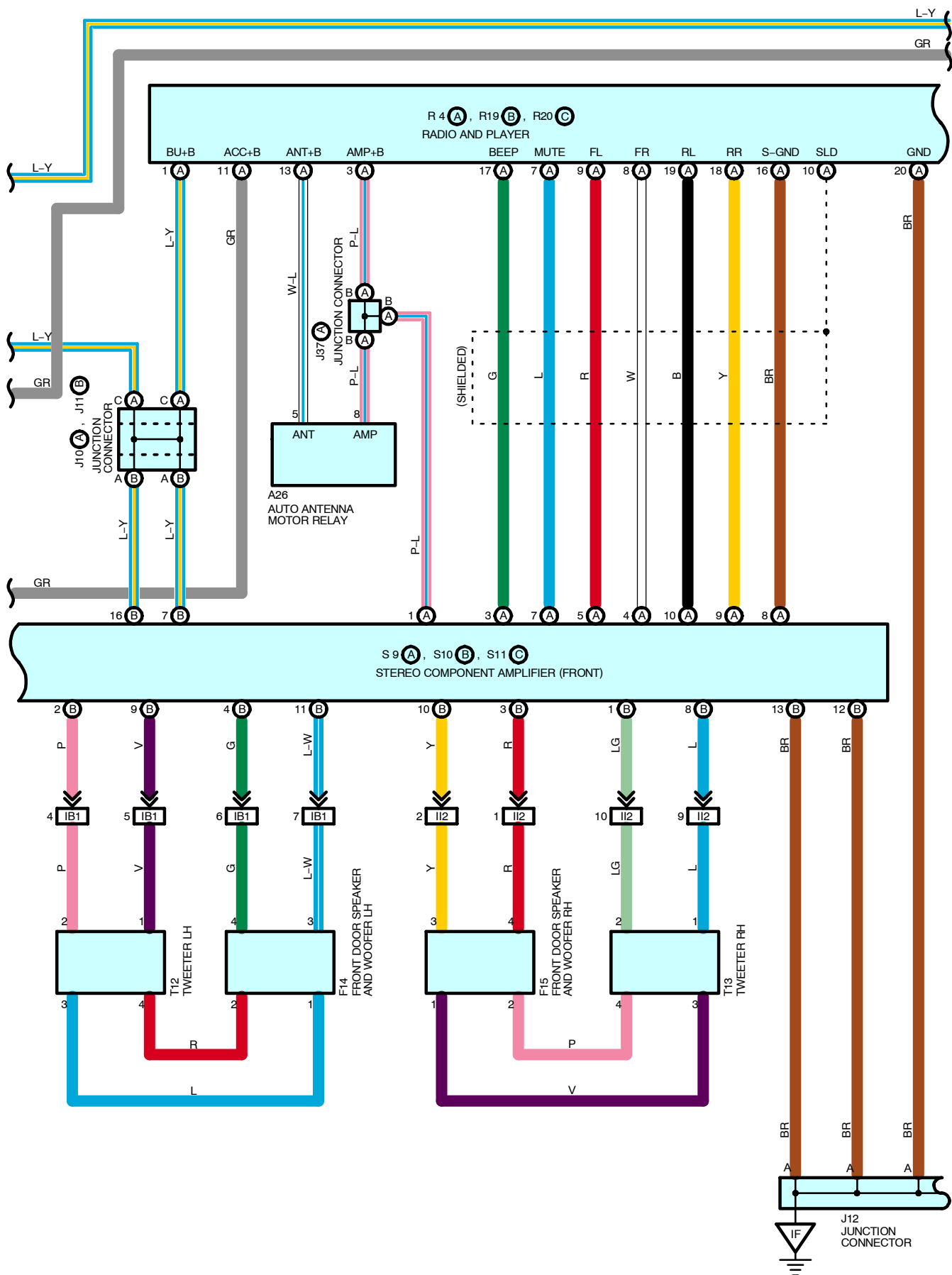
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)

: GROUND POINTS

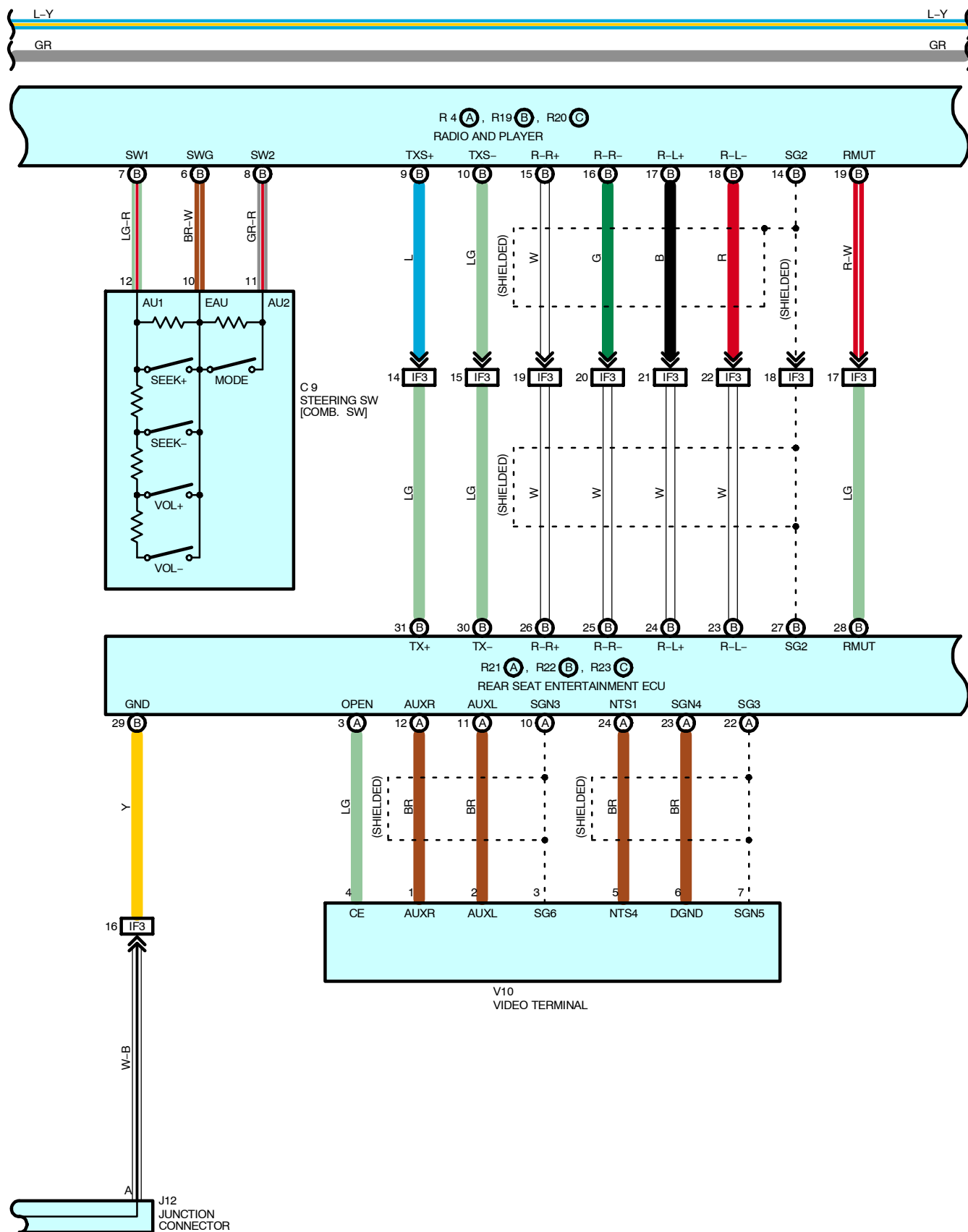
Code	See Page	Ground Points Location
IG	48	Right Kick Panel

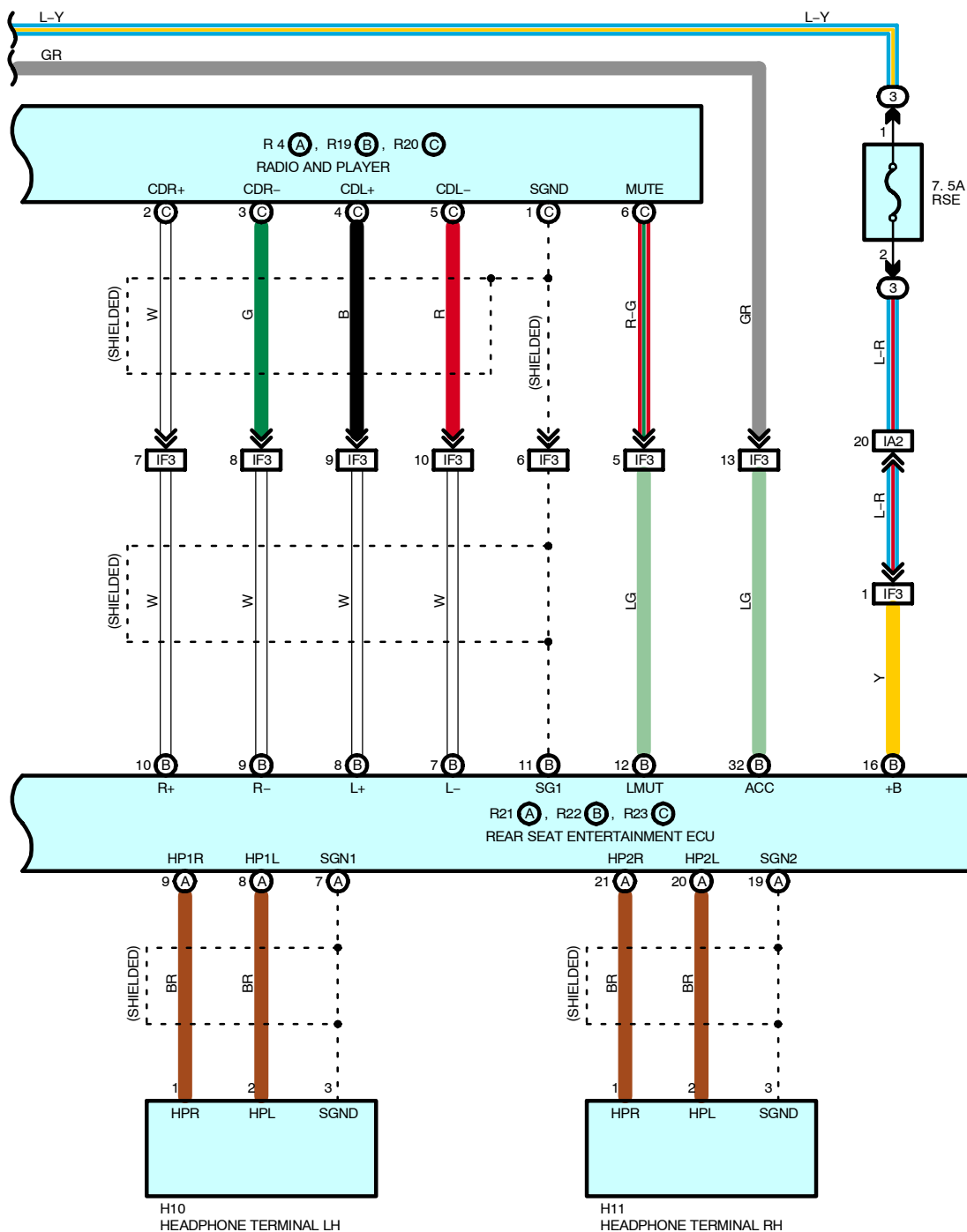
RADIO AND PLAYER (REAR SEAT ENTERTAINMENT SYSTEM TYPE)



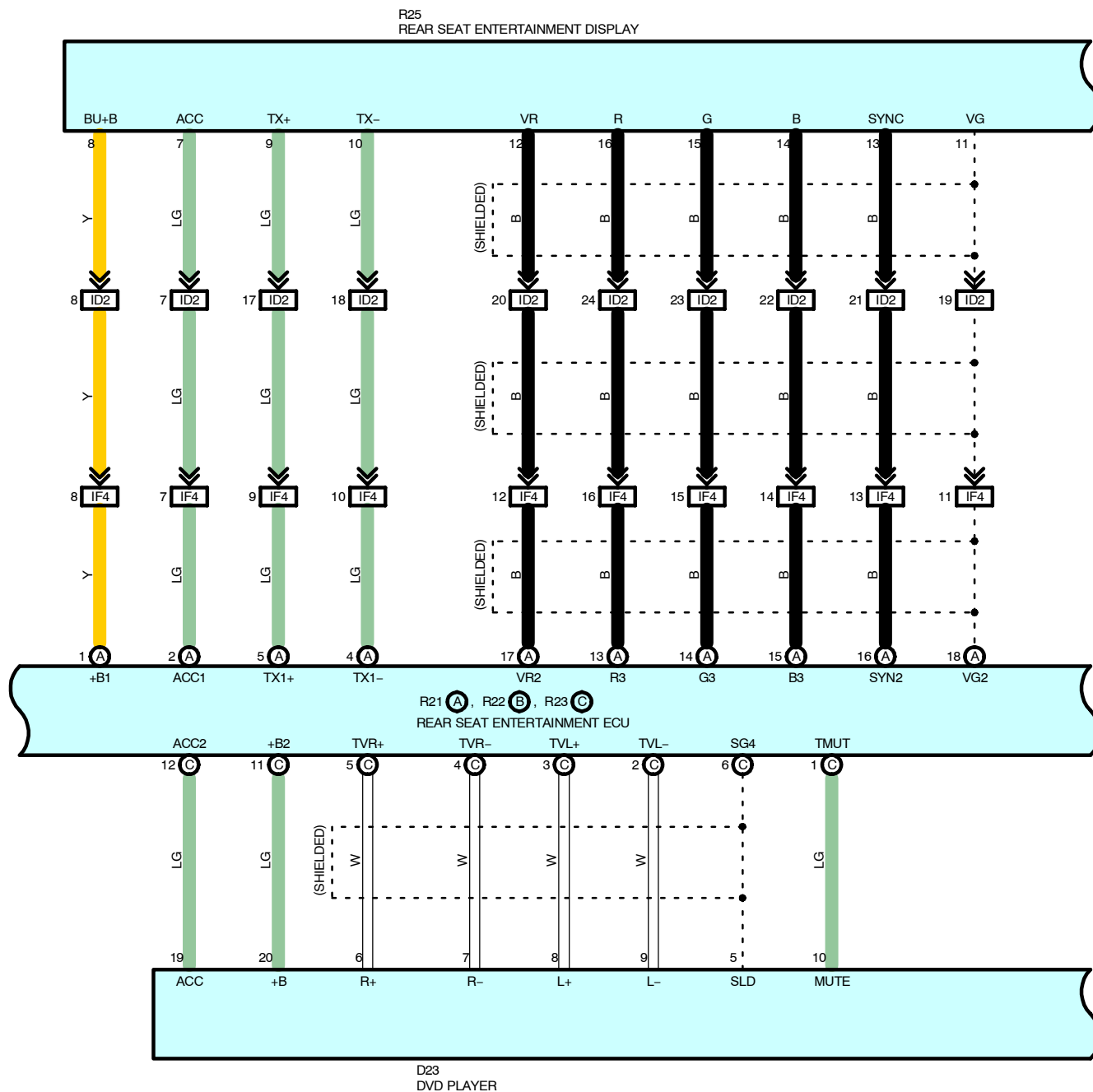


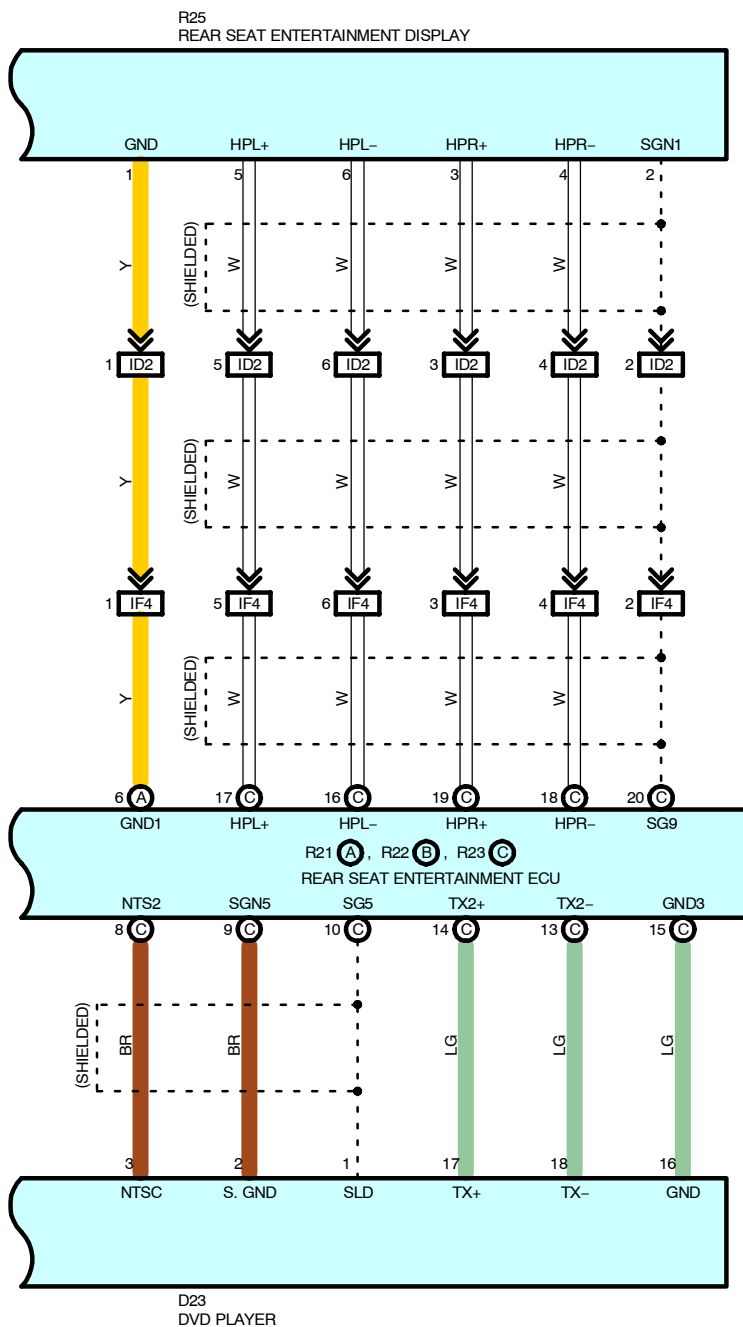
RADIO AND PLAYER (REAR SEAT ENTERTAINMENT SYSTEM TYPE)





RADIO AND PLAYER (REAR SEAT ENTERTAINMENT SYSTEM TYPE)





RADIO AND PLAYER (REAR SEAT ENTERTAINMENT SYSTEM TYPE)

SERVICE HINTS

S10 (B) STEREO COMPONENT AMPLIFIER (FRONT)

(B) 7, (B) 16-GROUND : Always approx. **12** volts

(B)15-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(B)12, (B) 13-GROUND : Always continuity

S12 (A) STEREO COMPONENT AMPLIFIER (REAR)

(A) 7, (A)16-GROUND : Always approx. **12** volts

(A)15-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(A)12, (A) 13-GROUND : Always continuity

R4 (A) RADIO AND PLAYER

(A) 1-GROUND : Always approx. **12** volts

(A)11-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(A)20-GROUND : Always continuity

R21 (A) REAR SEAT ENTERTAINMENT ECU

(A)16-GROUND : Always approx. **12** volts

(A)29-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A26	38	J11 B	40	R22 B	41
A36	38	J12	40	R23 C	41
C9	38	J37 A	40	R25	43
D23	39	J38 B	40	S9 A	41
E8	39	J48 A	40	S10 B	41
F14	42	J49 B	40	S11 C	41
F15	42	R4 A	41	S12 A	41
H10	39	R9	43	S13 B	41
H11	39	R10	43	T12	43
J3	37	R19 B	41	T13	43
J9	40	R20 C	41	V10	41
J10 A	40	R21 A	41		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
4C	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

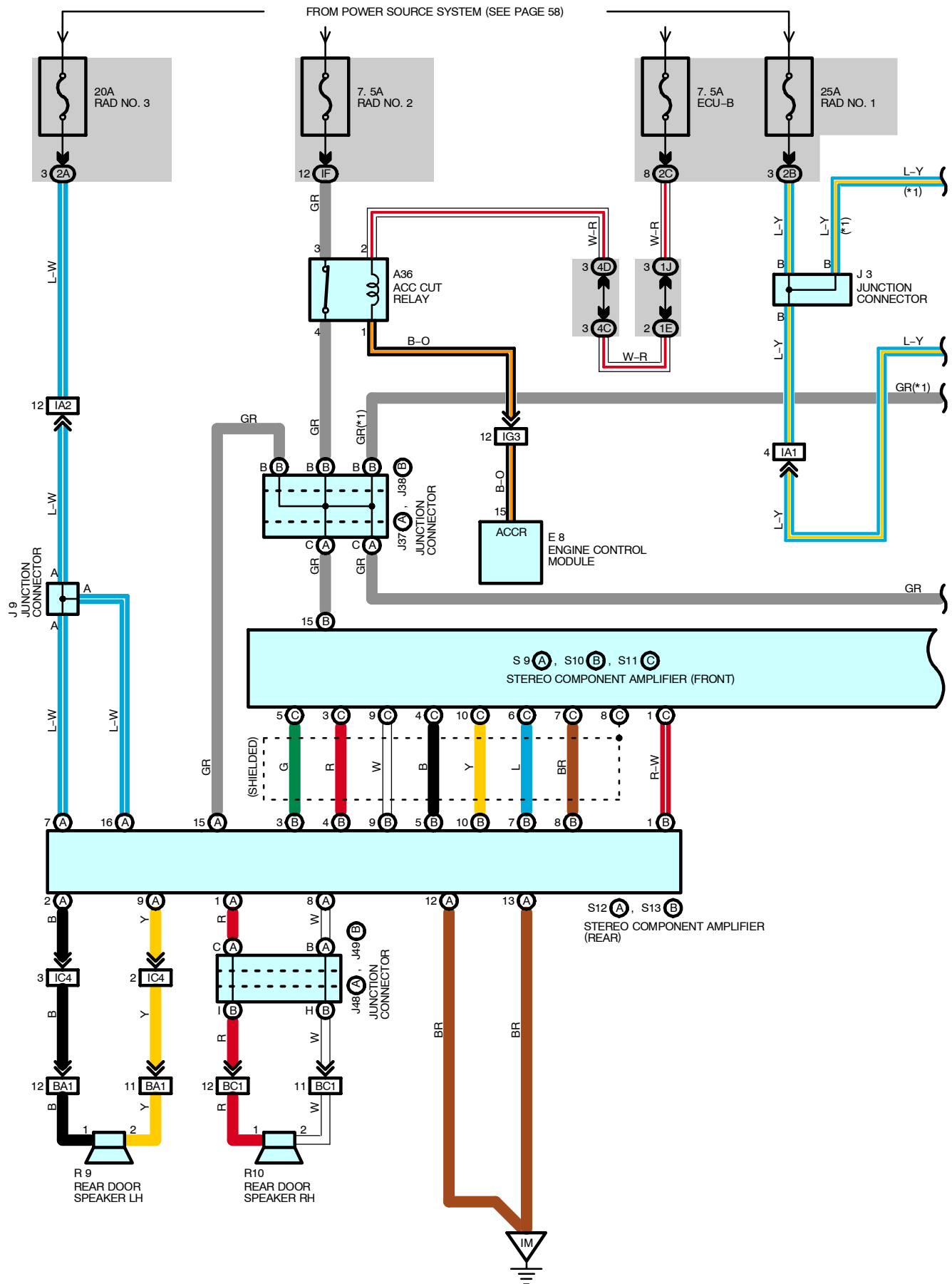
 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	48	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
ID2	48	Cowl Wire and Roof Wire (Left Side of Instrument Panel)
IF3	48	Console Box Wire and Cowl Wire (Rear Console)
IF4		
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)

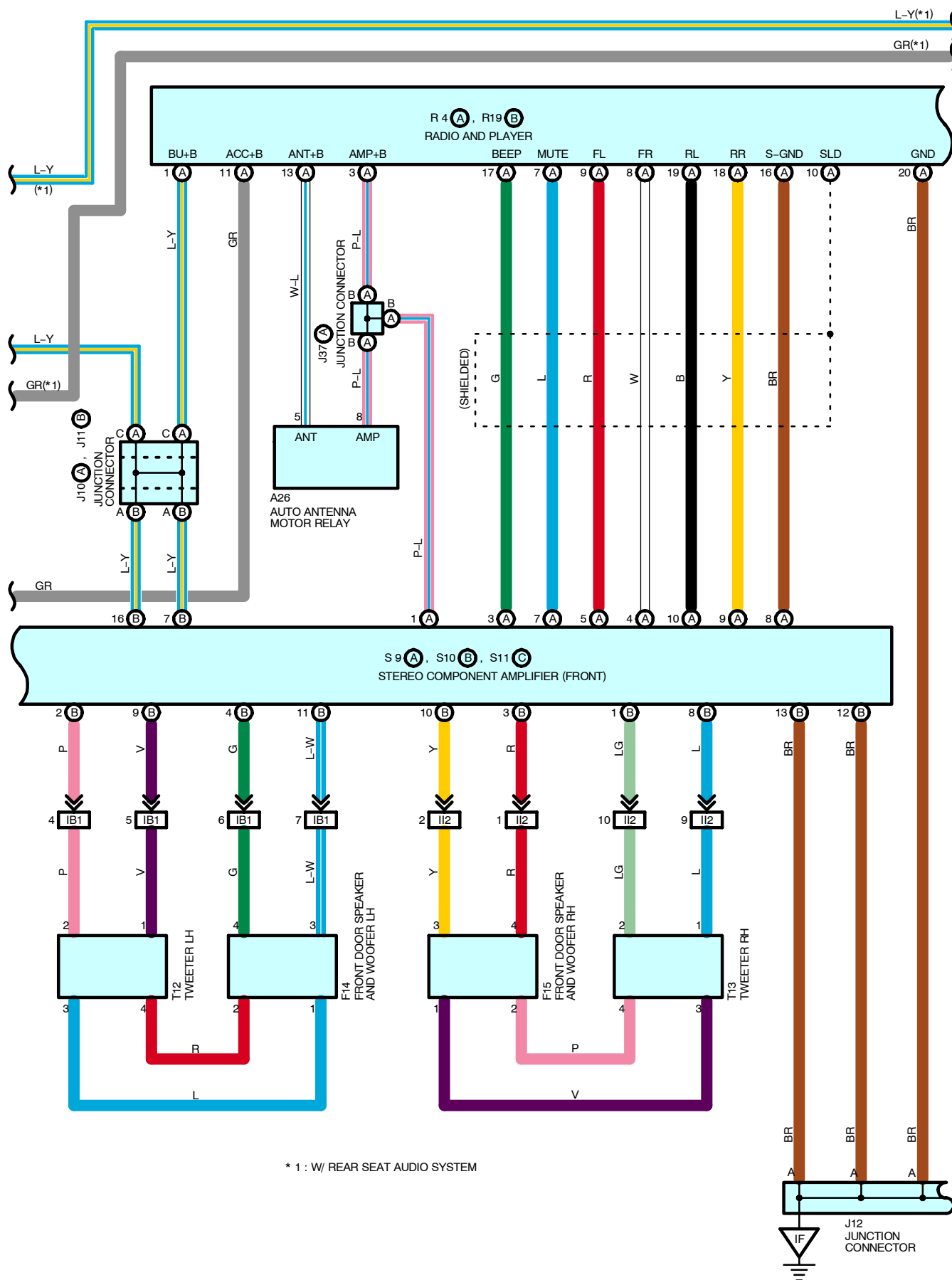
 : GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Instrument Panel Brace LH
IM	48	Rear Consol

RADIO AND PLAYER



(10 SPEAKER EXCEPT REAR SEAT ENTERTAINMENT SYSTEM TYPE)





(10 SPEAKER EXCEPT REAR SEAT ENTERTAINMENT SYSTEM TYPE)

SERVICE HINTS

S10 (B) STEREO COMPONENT AMPLIFIER (FRONT)

(B) 7, (B) 16-GROUND : Always approx. **12** volts

(B)15-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(B) 12, (B) 13-GROUND : Always continuity

S12 (A) STEREO COMPONENT AMPLIFIER (REAR)

(A) 7, (A)16-GROUND : Always approx. **12** volts

(A)15-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(A) 12, (A) 13-GROUND : Always continuity

R4 (A) RADIO AND PLAYER

(A) 1-GROUND : Always approx. **12** volts

(A)11-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated

(A)20-GROUND : Always continuity

R24 REAR SEAT AUDIO CONTROLLER

12-GROUND : Always approx. **12** volts

17-GROUND : Always continuity

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A26	38	J10	A 40	R19	B 41
A36	38	J11	B 40	R24	43
C9	38	J12	40	S9	A 41
E8	39	J37	A 40	S10	B 41
F14	42	J38	B 40	S11	C 41
F15	42	J48	A 40	S12	A 41
H10	39	J49	B 40	S13	B 41
H11	39	R4	A 41	T12	43
J3	37	R9	43	T13	43
J9	40	R10	43		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
3	23	Engine Room R/B No.3 (Engine Compartment Left)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	and	
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2A	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2C		
4C	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

RADIO AND PLAYER (10 SPEAKER EXCEPT REAR SEAT ENTERTAINMENT SYSTEM TYPE)

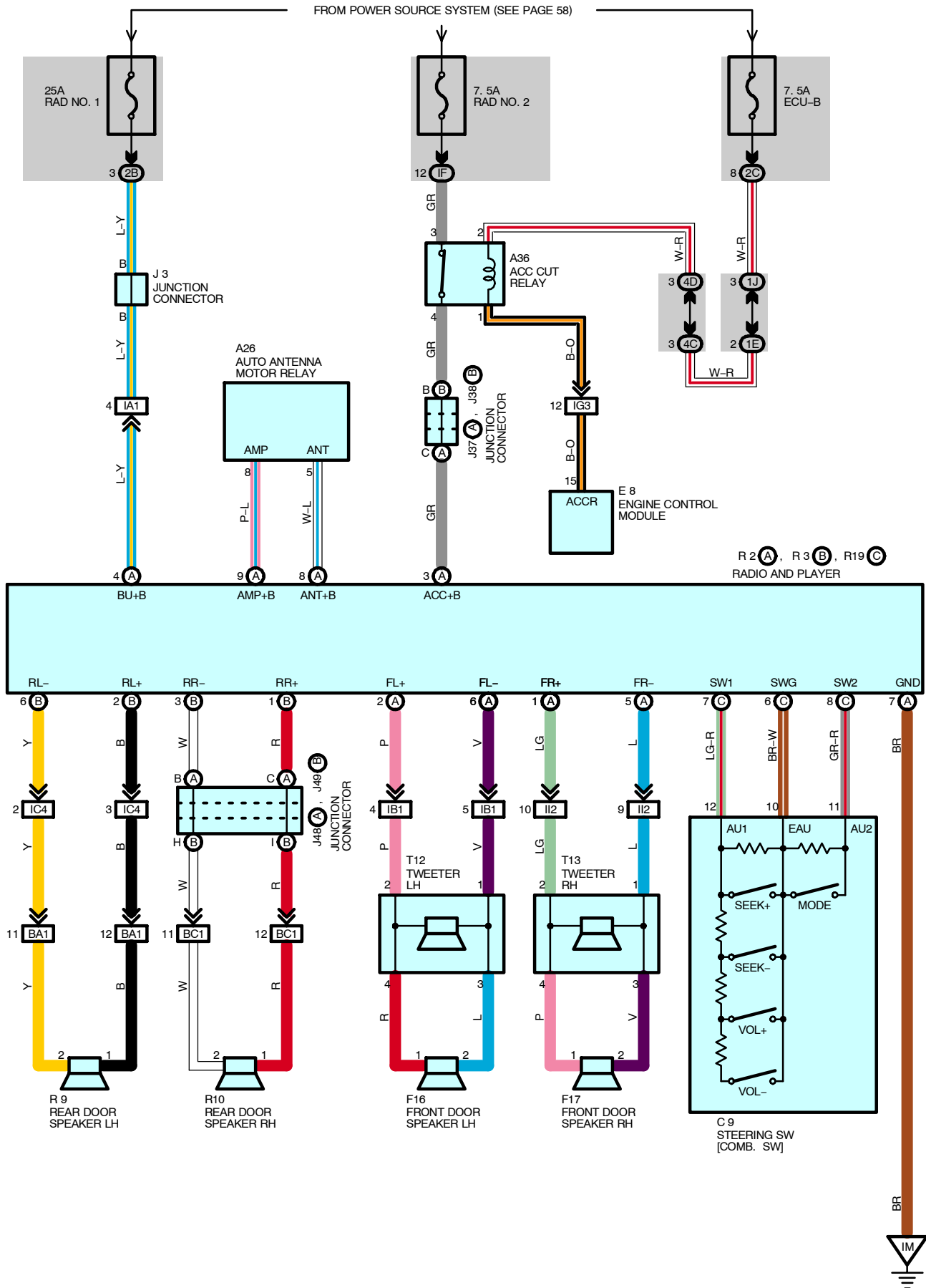
: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	48	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
ID2	48	Cowl Wire and Roof Wire (Left Side of Instrument Panel)
IF3	48	Console Box Wire and Cowl Wire (Rear Console)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)

: GROUND POINTS

Code	See Page	Ground Points Location
IF	48	Instrument Panel Brace LH
IM	48	Rear Consol

RADIO AND PLAYER (6 SPEAKER)



SERVICE HINTS

R2 (A) RADIO AND PLAYER

- (A) 3-GROUND : Approx. **12** volts with the ignition SW at **ON** or **ACC** position and acc cut relay not operated
- (A) 4-GROUND : Always approx. **12** volts
- (A) 7-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A26	38	J3	37	R3 B	41
A36	38	J37 A	40	R9	43
C9	38	J38 B	40	R10	43
E8	39	J48 A	40	R19 C	41
F16	42	J49 B	40	T12	43
F17	42	R2 A	41	T13	43

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
IF	and	
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2B	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2C		
4C	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4D		

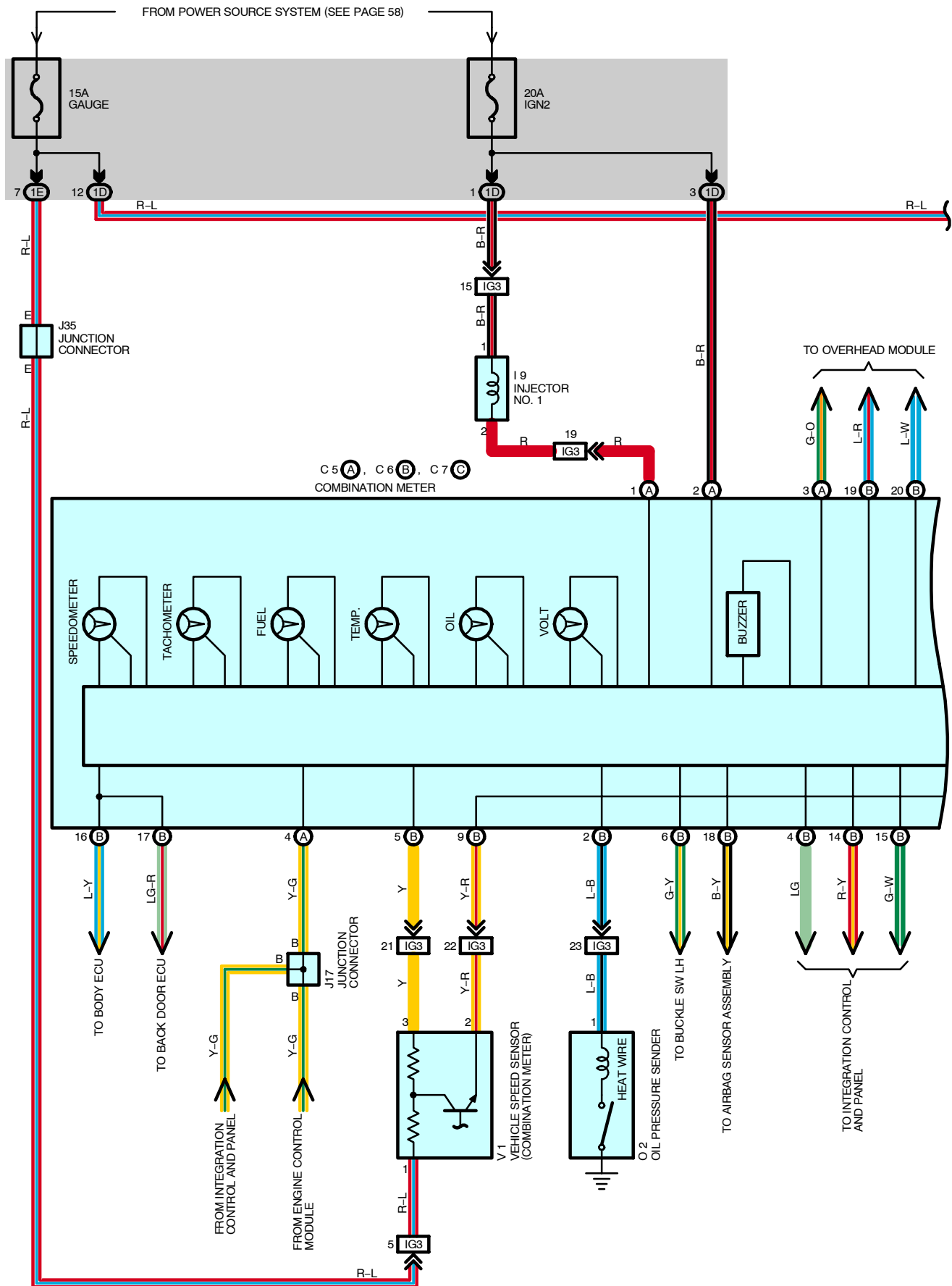
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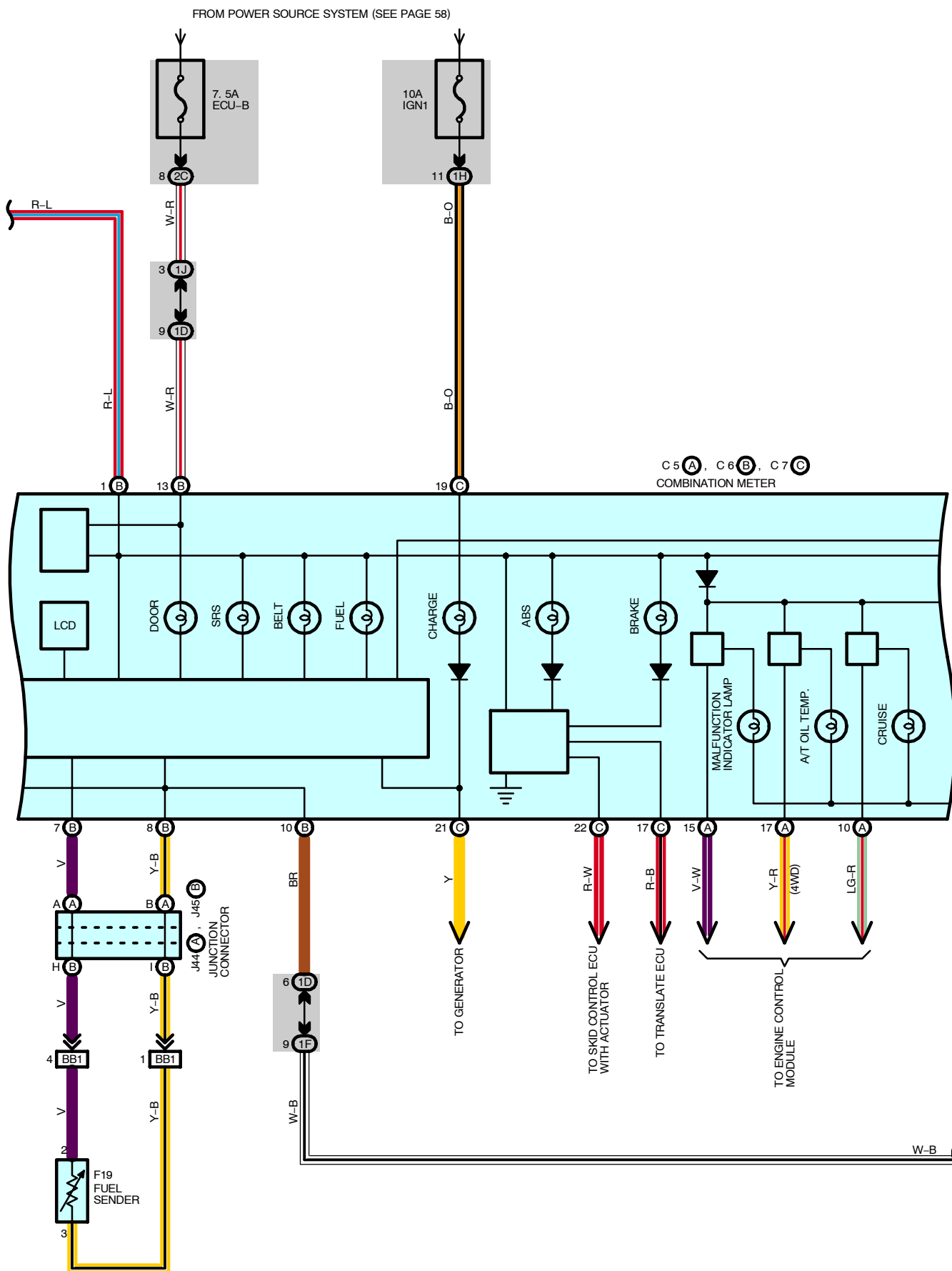
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IB1	48	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC4	48	Floor No.2 Wire and Cowl Wire (Left Kick Panel)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)

▽ : GROUND POINTS

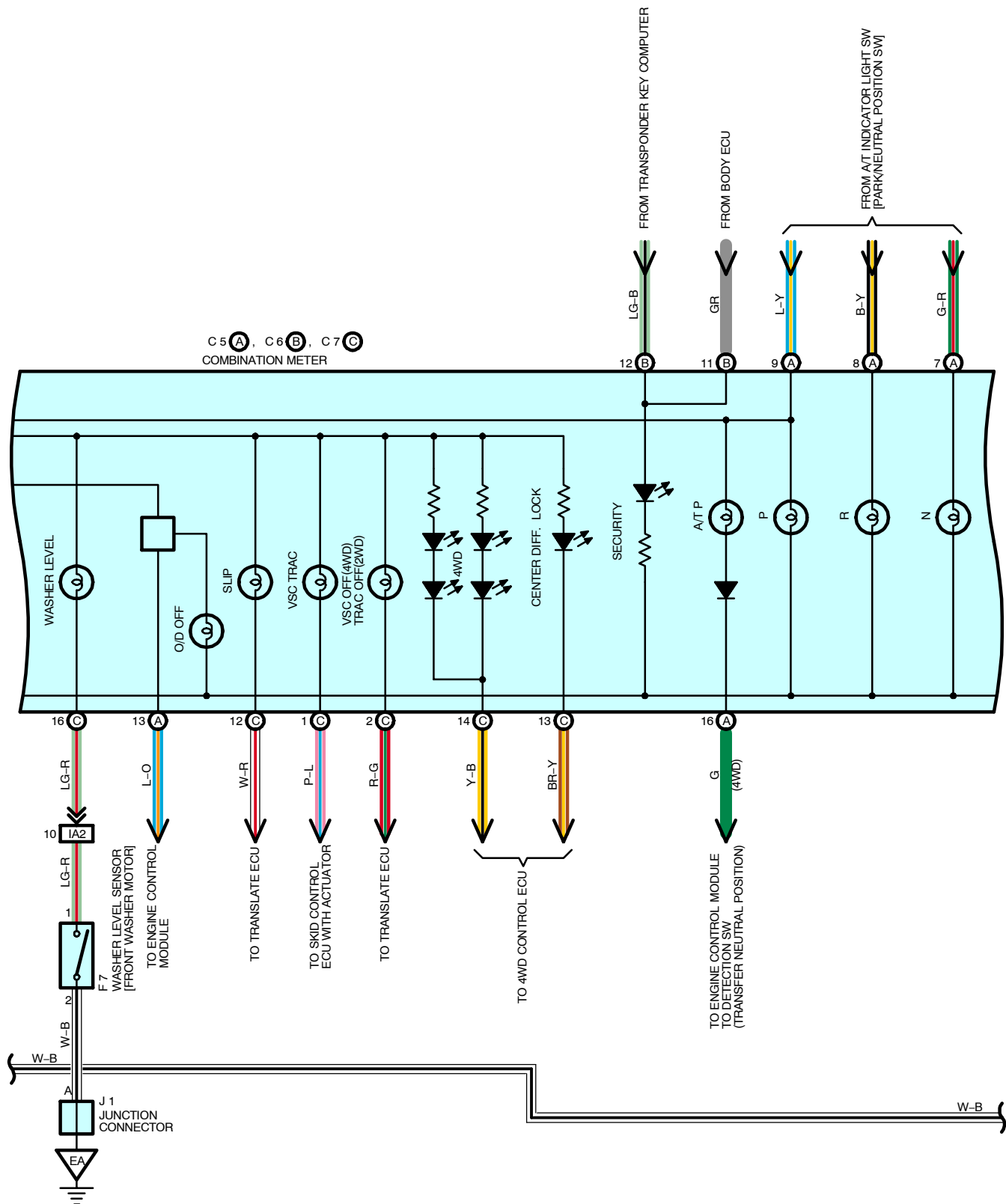
Code	See Page	Ground Points Location
IM	48	Rear Consol

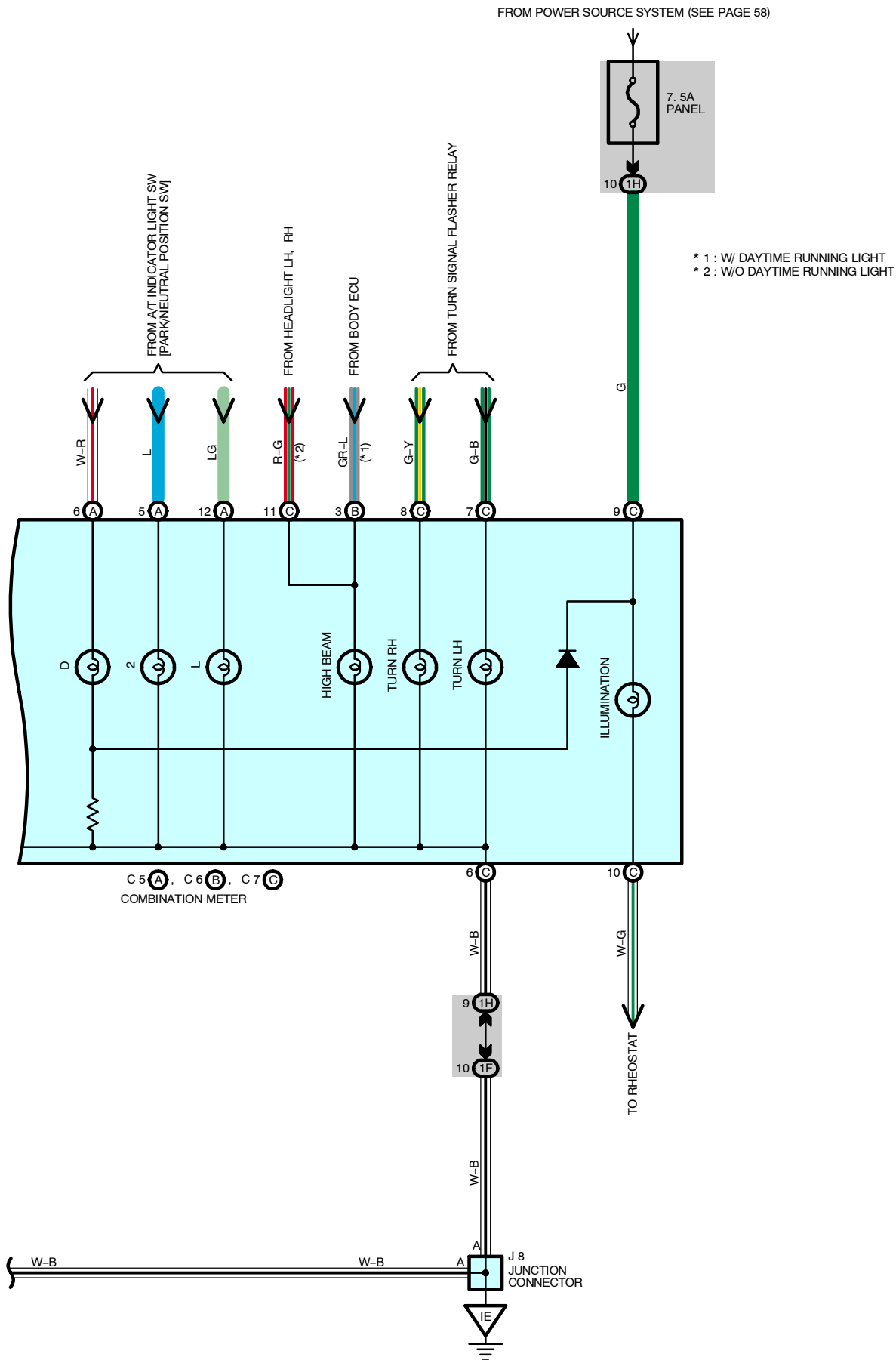
COMBINATION METER





COMBINATION METER





COMBINATION METER

SERVICE HINTS

C6 (B), C7 (C) COMBINATION METER

(B)13-GROUND : Always approx. **12** volts

(B) 1, (C) 19-GROUND : Approx. **12** volts with the ignition SW at **ON** position

(B) 10, (C) 6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
C5	A 38	I9	37	J44	A 40
C6	B 38	J1	37	J45	B 40
C7	C 38	J8	40	O2	37
F7	36	J17	40	V1	37
F19	42	J35	40		

□ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1H		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

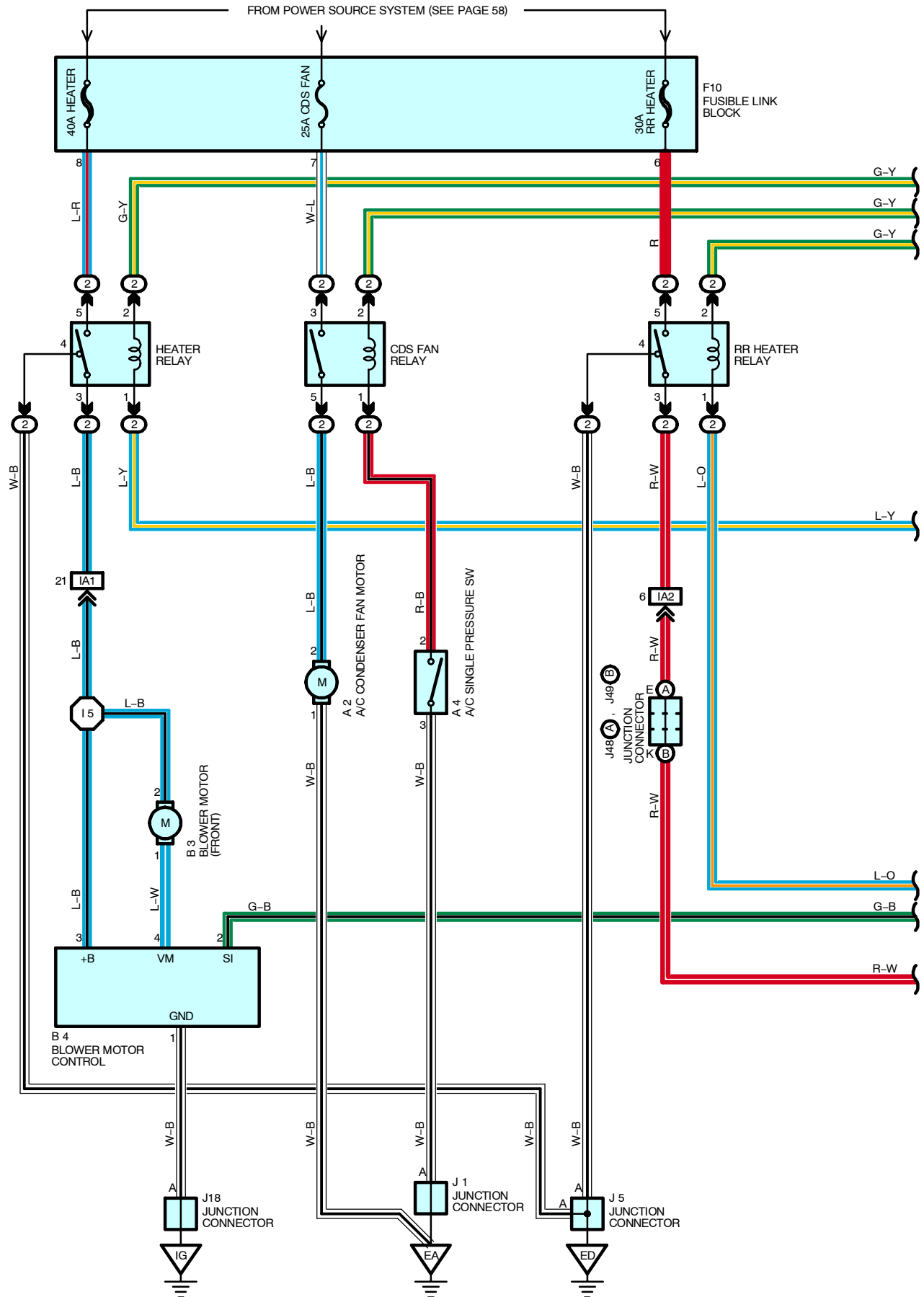
□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

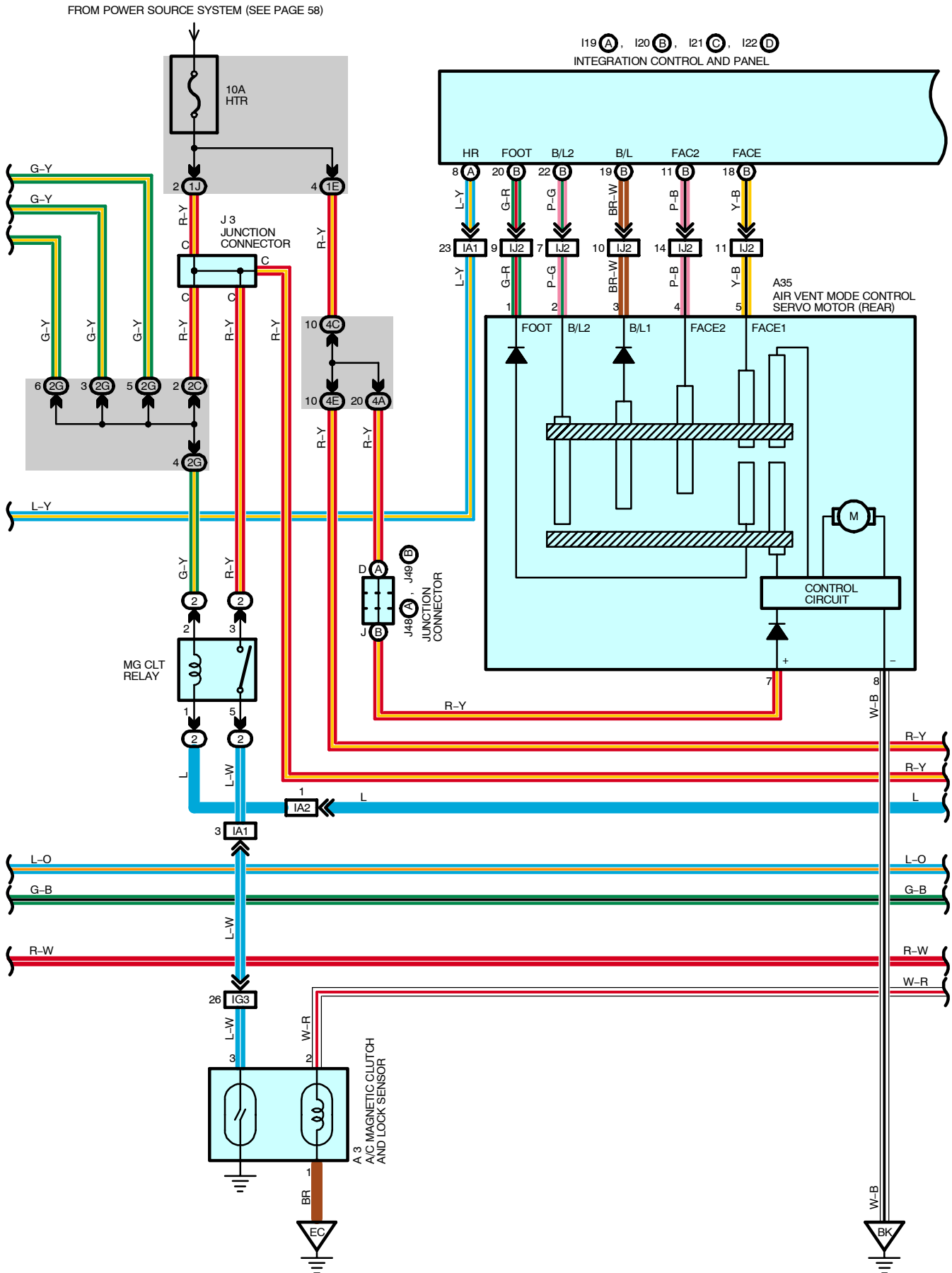
Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA2	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
BB1	52	Frame Wire and Floor No.1 Wire (Under the Front Passenger's Seat)

▽ : GROUND POINTS

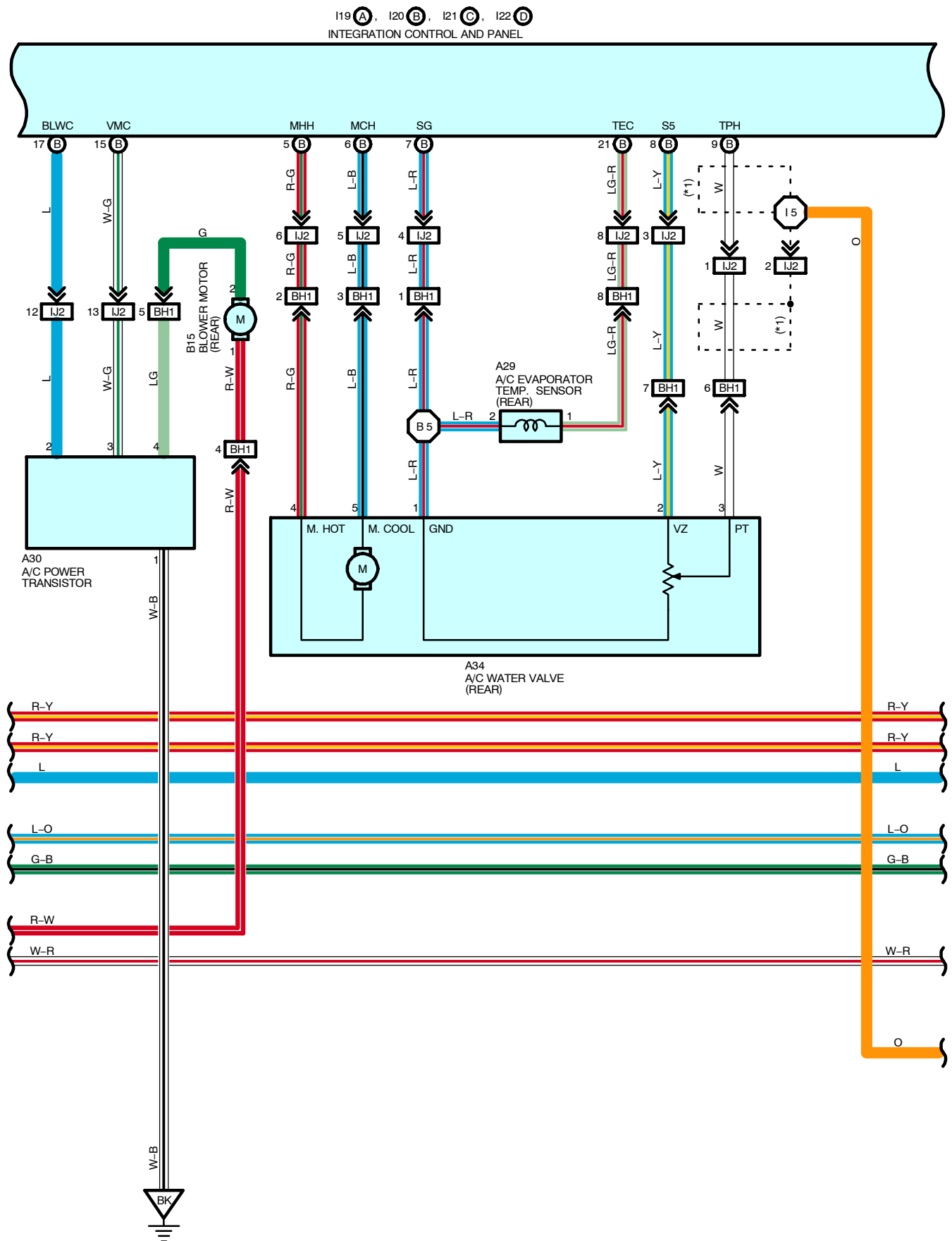
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
IE	48	Left Kick Panel

AIR CONDITIONING (DUAL A/C)



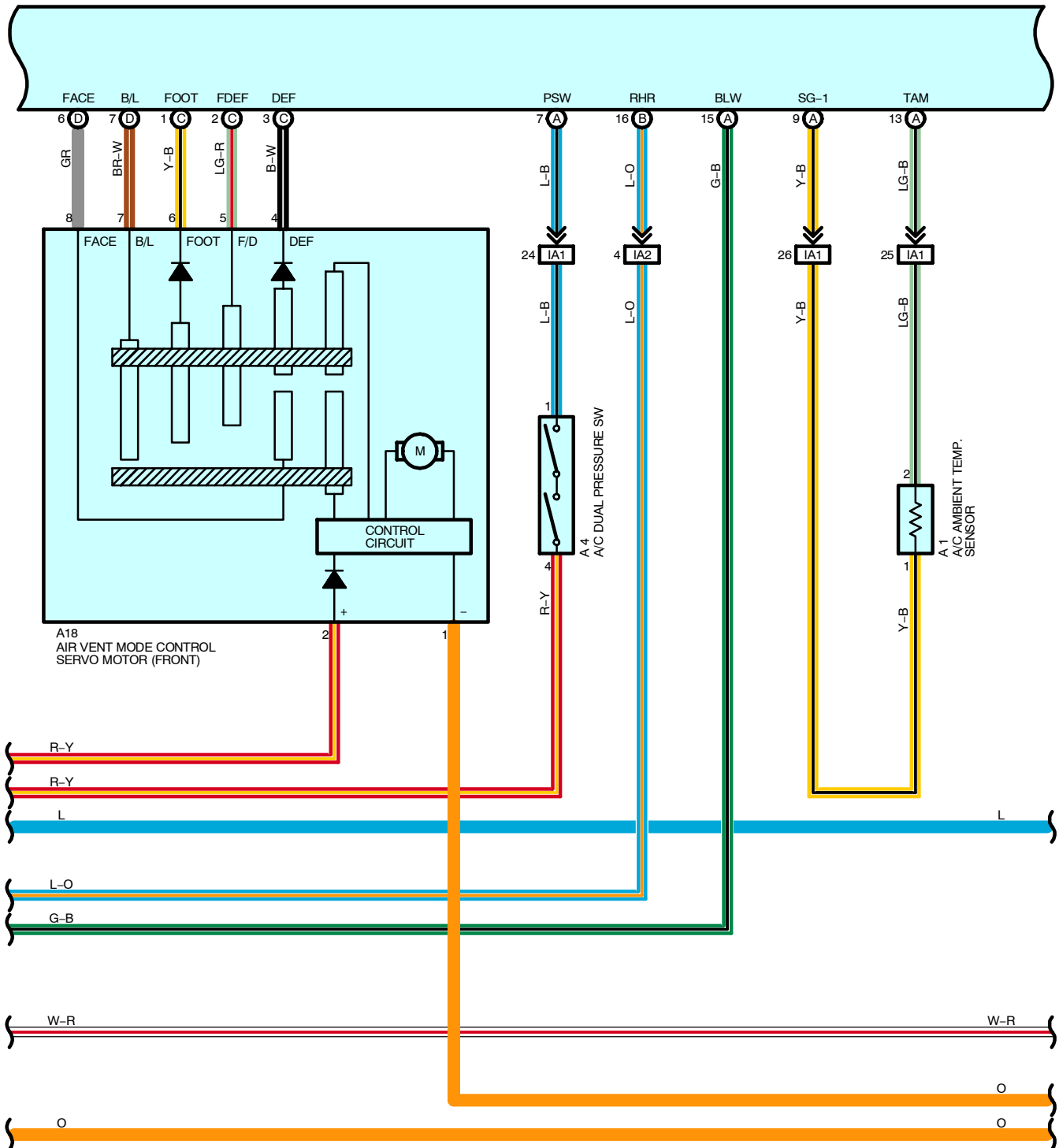


AIR CONDITIONING (DUAL A/C)

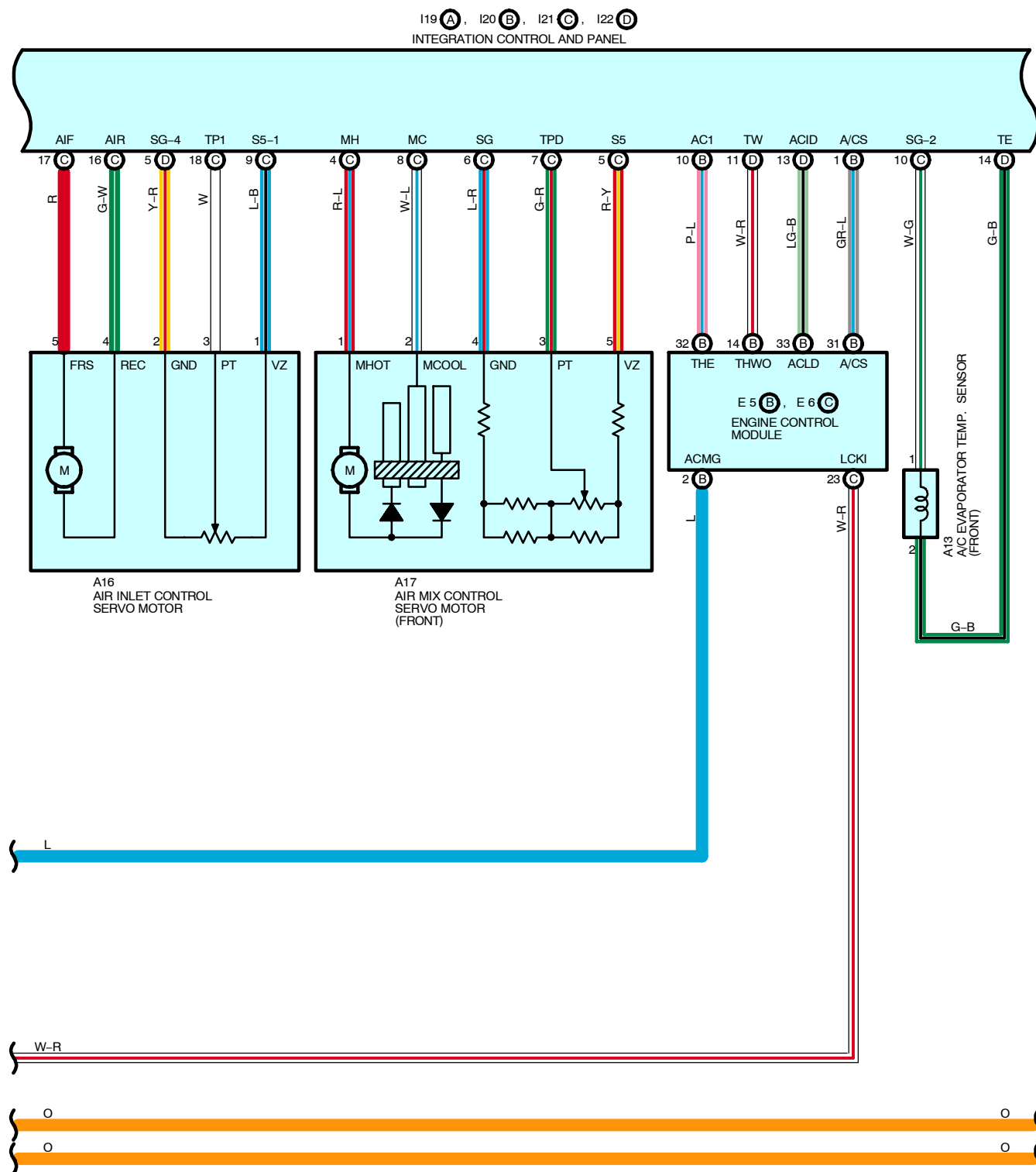


* 1 : SHIELDED

I19 (A), I20 (B), I21 (C), I22 (D)
INTEGRATION CONTROL AND PANEL

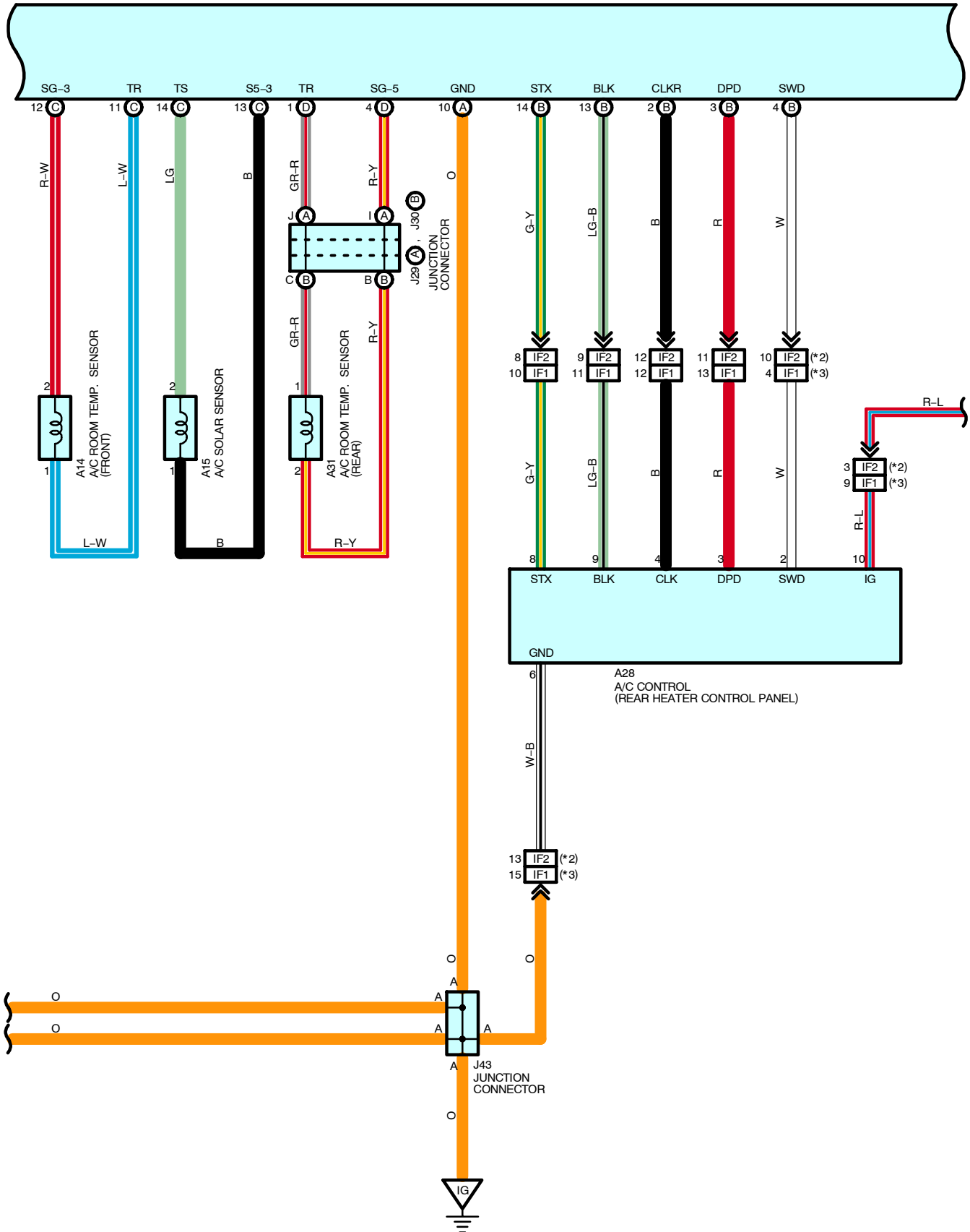


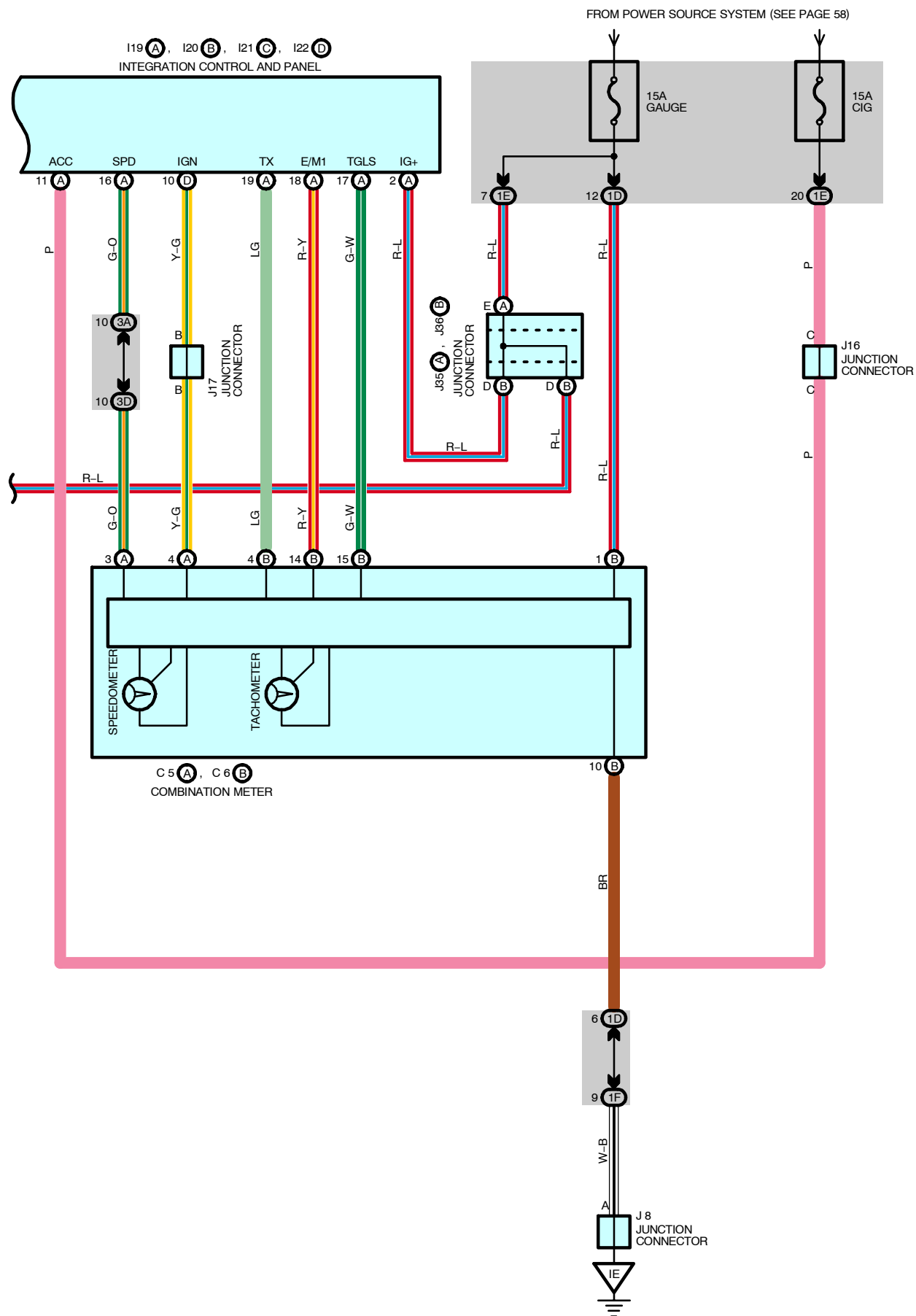
AIR CONDITIONING (DUAL A/C)



* 2 : W/ REAR SEAT ENTERTAINMENT SYSTEM, REAR SEAT AUDIO SYSTEM
 * 3 : W/O REAR SEAT ENTERTAINMENT SYSTEM, REAR SEAT AUDIO SYSTEM

I19 (A), I20 (B), I21 (C), I22 (D)
 INTEGRATION CONTROL AND PANEL





SERVICE HINTS

I19 (A) INTEGRATION CONTROL AND PANEL

- (A) 8-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 (A) 2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 (A)10-GROUND : Always continuity

A4 A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW)

- 1-4 : Open with the refrigerant at less than approx. **2.0** kgf/cm² (**196** kpa, **28** psi) or more than approx. **32.0** kgf/cm² (**3138** kpa, **455** psi)
 2-3 : Open below approx. **12.5** kgf/cm² (**1226** kpa, **178** psi)
 : Closed above approx. **15.5** kgf/cm² (**1520** kpa, **220** psi)

A18 AIR VENT MODE CONTROL SERVO MOTOR (FRONT)

- 2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 1-GROUND : Always continuity

A35 AIR VENT MODE CONTROL SERVO MOTOR (REAR)

- 7-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 8-GROUND : Always continuity

HEATER RELAY

- 5-3 : Closed with ignition SW on and blower SW on

A28 A/C CONTROL (REAR HEATER CONTROL PANEL)

- 10-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 6-GROUND : Always continuity

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A1	36	A34	42	J1	37
A2	36	A35	42	J3	37
A3	36	B3	38	J5	37
A4	36	B4	38	J8	40
A13	38	B15	42	J16	40
A14	38	C5	A 38	J17	40
A15	38	C6	B 38	J18	40
A16	38	E5	B 39	J29	A 40
A17	38	E6	C 39	J30	B 40
A18	38	F10	36	J35	A 40
A28	38	I19	A 39	J36	B 40
A29	42	I20	B 39	J43	40
A30	42	I21	C 39	J48	A 40
A31	42	I22	D 39	J49	B 40

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

AIR CONDITIONING (DUAL A/C)



: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		
4A	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4C		
4E		



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IF1	48	Console Box Wire and Cowl Wire (Rear Console)
IF2		
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IJ2	50	Floor No.1 Wire and Cowl Wire (Right Kick Panel)
BH1	52	Floor No.1 Wire and A/C Sub Wire (Right Side of Rear Quarter Panel)



: GROUND POINTS

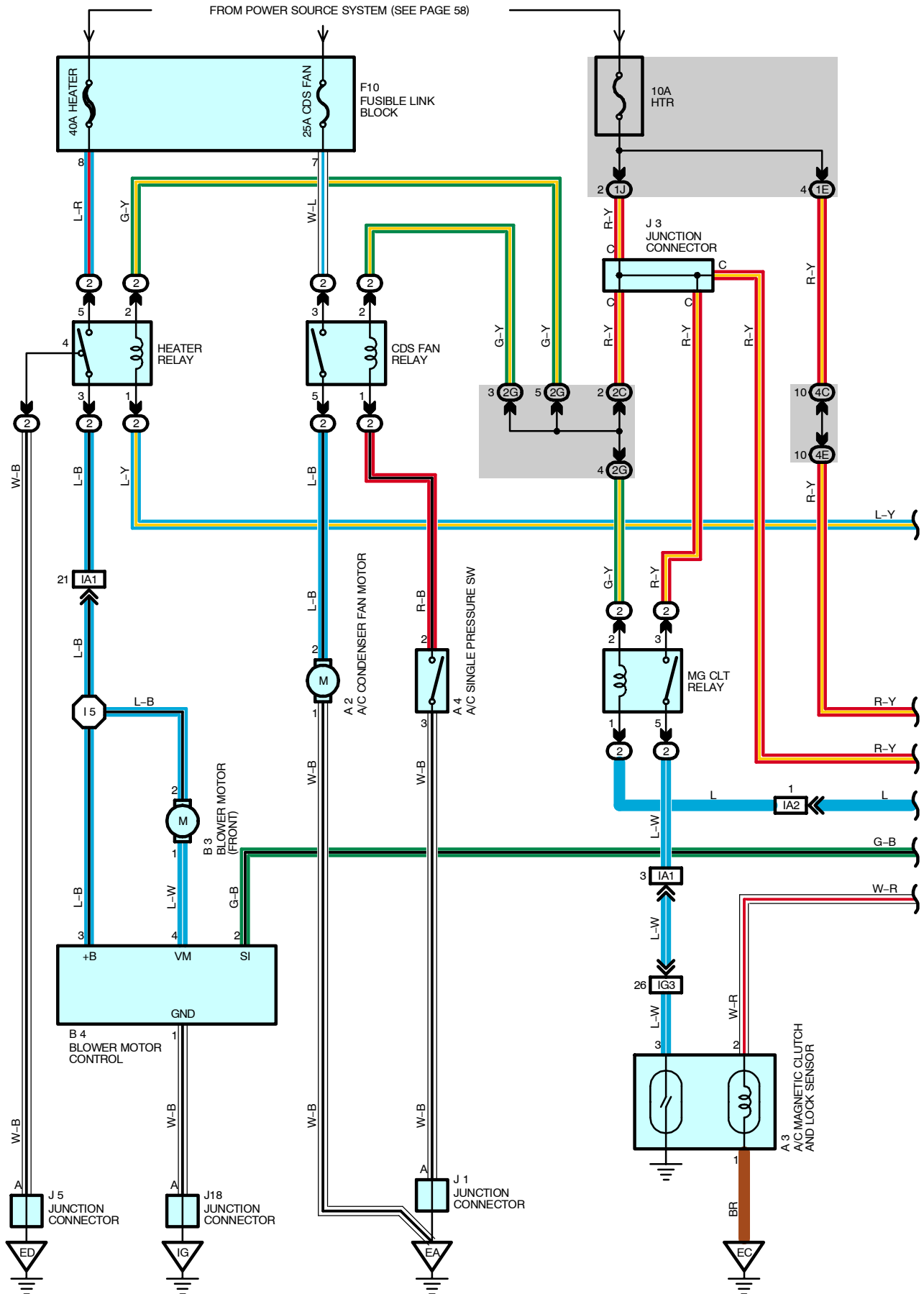
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
EC	46	Rear Bank of Left Cylinder Head
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IG	48	Right Kick Panel
BK	52	Right Side of Center Pillar



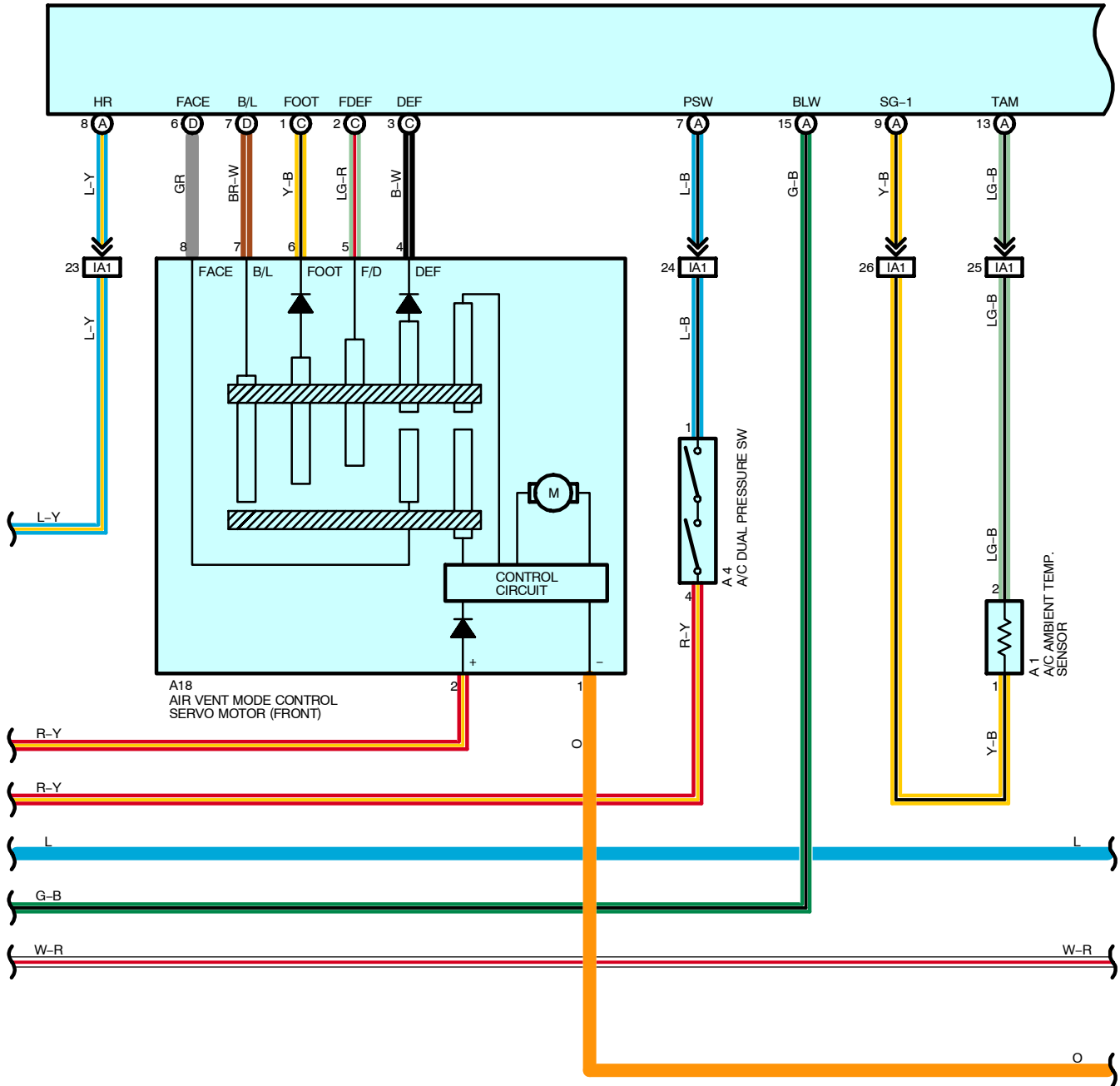
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	50	Cowl Wire	B5	52	A/C Sub Wire

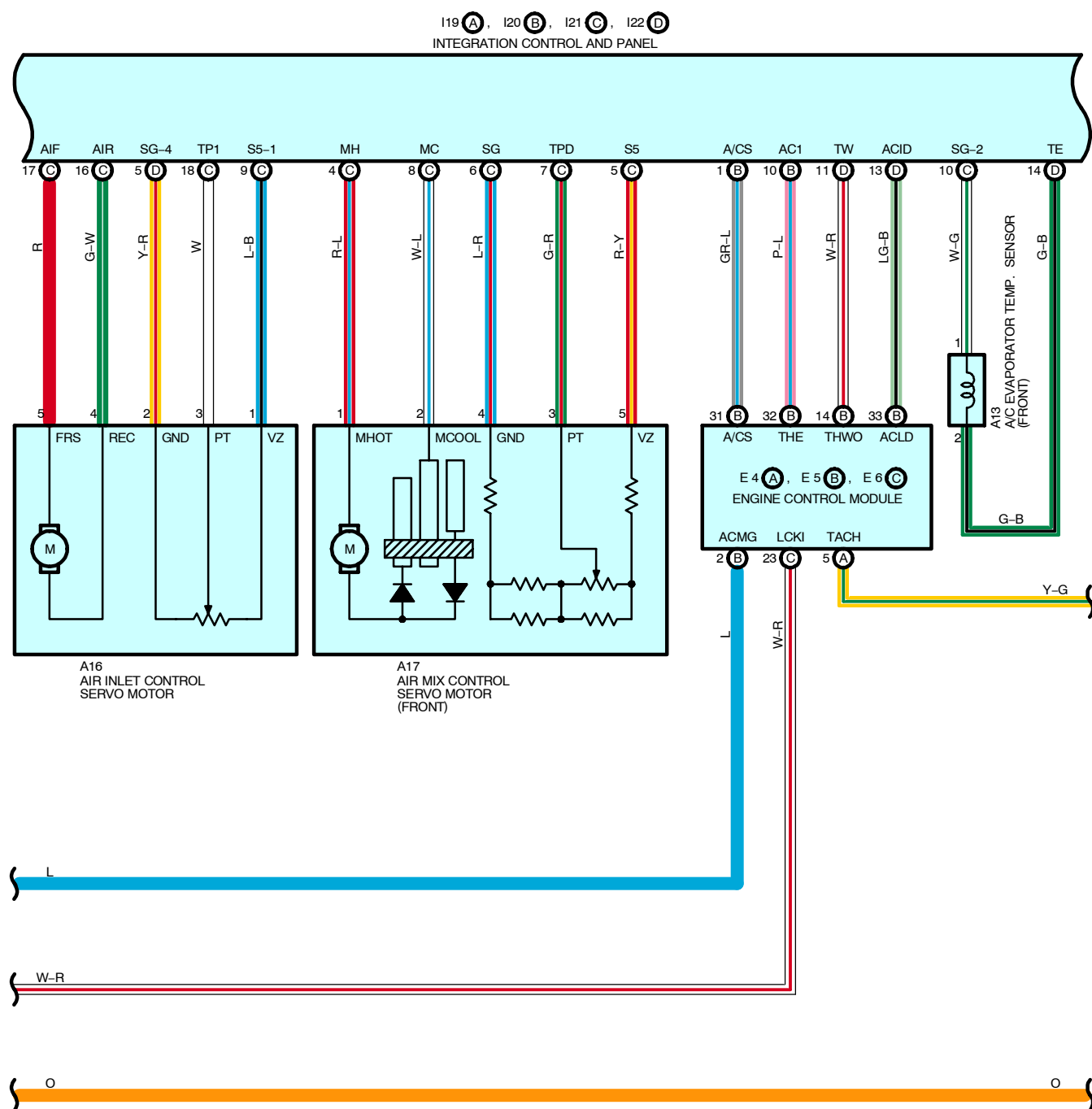
AIR CONDITIONING (SINGLE A/C)



I19 (A), I20 (B), I21 (C), I22 (D)
 INTEGRATION CONTROL AND PANEL



AIR CONDITIONING (SINGLE A/C)





AIR CONDITIONING (SINGLE A/C)

SERVICE HINTS

I19 (A) INTEGRATION CONTROL AND PANEL

- (A) 8-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 (A) 2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 (A)10-GROUND : Always continuity

A4 A/C TRIPLE PRESSURE SW (A/C DUAL AND SINGLE PRESSURE SW)

- 1-4 : Open with the refrigerant at less than approx. **2.0** kgf/cm² (**196.1** kpa, **28.4** psi) or more than approx. **32.0** kgf/cm² (**3138** kpa, **455** psi)
 2-3 : Open below approx. **12.5** kgf/cm² (**1226** kpa, **178** psi)
 : Closed above approx. **15.5** kgf/cm² (**1520** kpa, **220** psi)

A18 AIR VENT MODE CONTROL SERVO MOTOR (FRONT)

- 2-GROUND : Approx. **12** volts with the ignition SW at **ON** position
 1-GROUND : Always continuity

HEATER RELAY

- 5-3 : Closed with the ignition SW on and blower SW on

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A1	36	B4	38	J1	37
A2	36	C5	A 38	J3	37
A3	36	C6	B 38	J5	37
A4	36	E4	A 39	J8	40
A13	38	E5	B 39	J16	40
A14	38	E6	C 39	J17	40
A15	38	F10	36	J18	40
A16	38	I19	A 39	J35	A 40
A17	38	I20	B 39	J36	B 40
A18	38	I21	C 39	J43	40
B3	38	I22	D 39		

○ : RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1E		
1F		
1J	29	Engine Room Main Wire and Instrument Panel J/B (Lower Finish Panel)
2C	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2G		
3A	32	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		
4C	34	Cowl Wire and Sub J/B No.4 (Upper the Accelerator Pedal)
4E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IA2		
IG3	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)

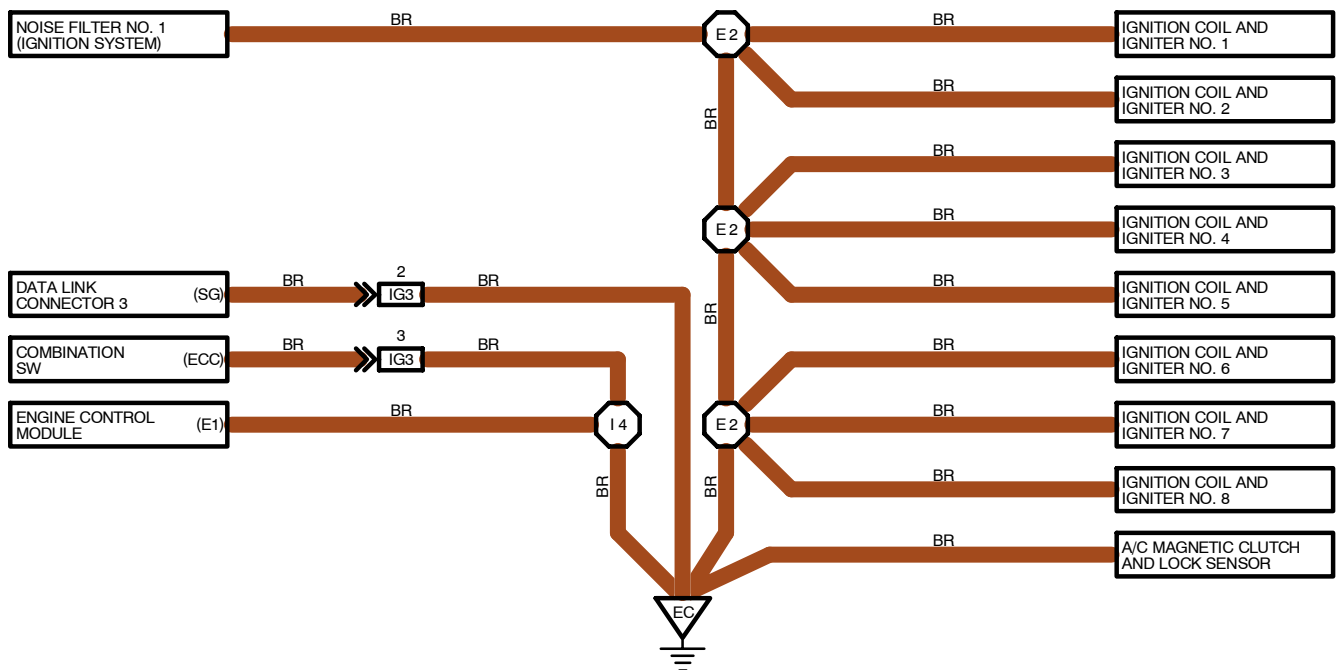
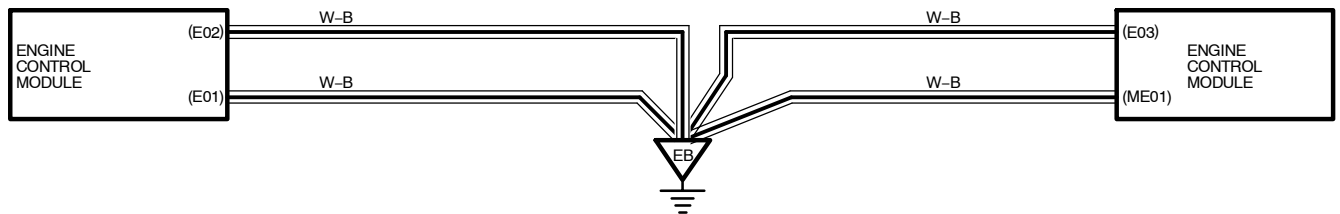
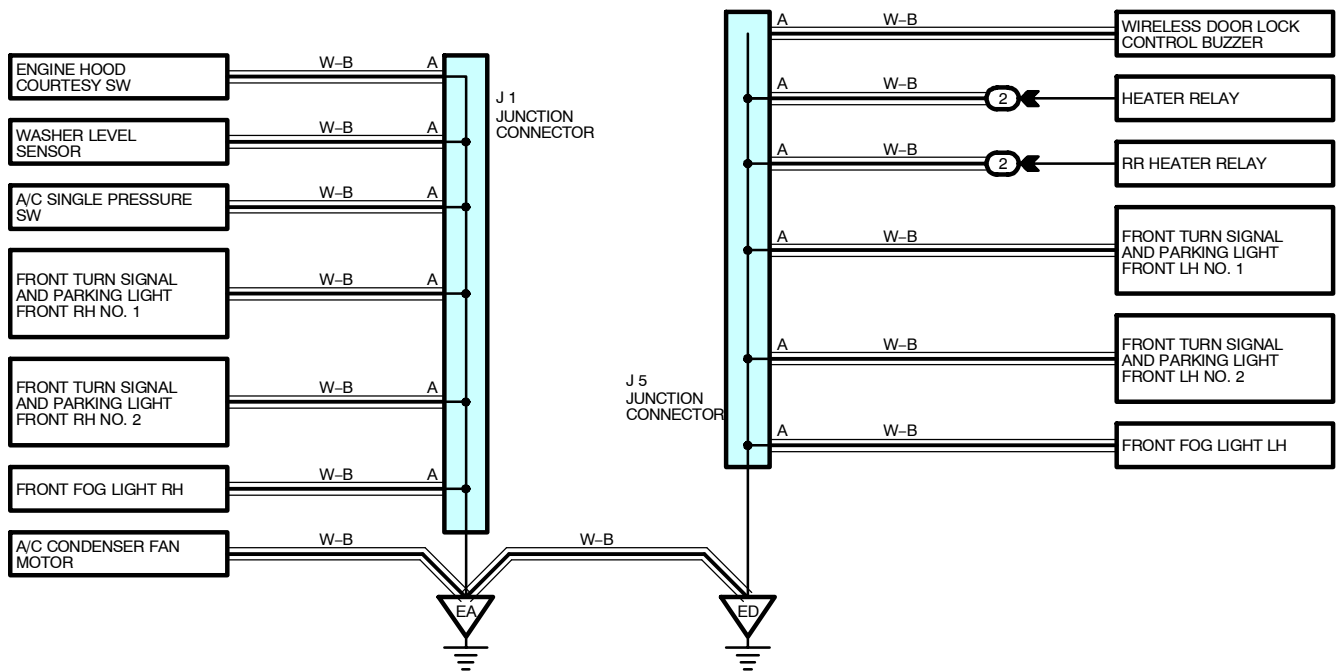
**: GROUND POINTS**

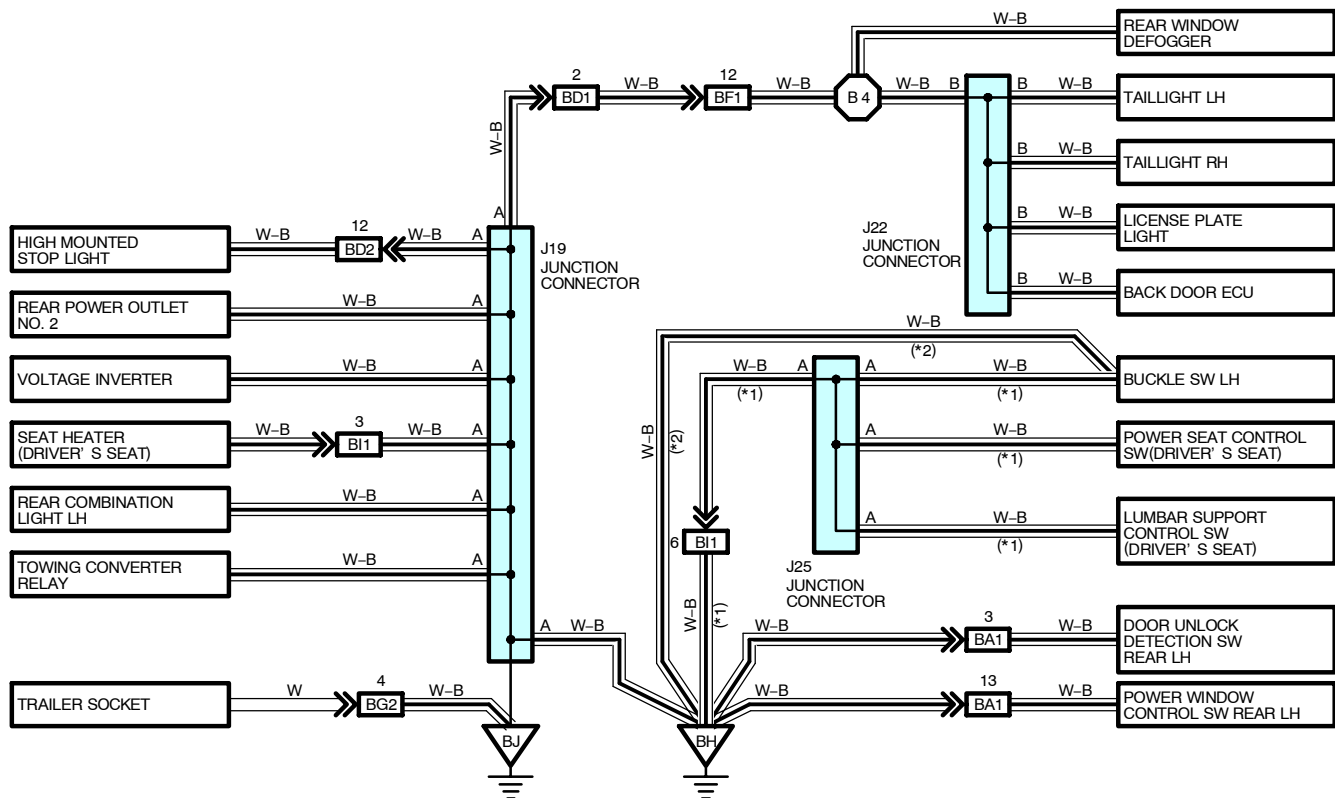
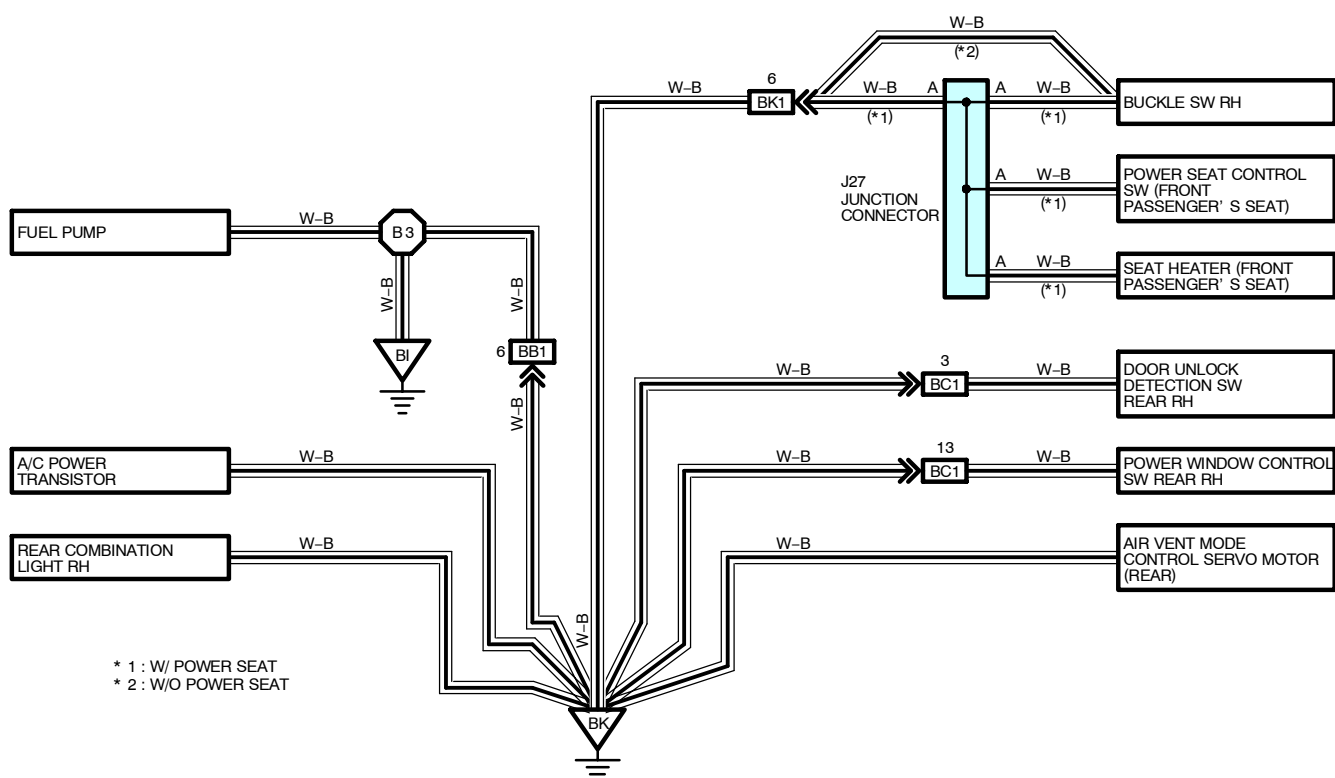
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
EC	46	Rear Bank of Left Cylinder Head
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IG	48	Right Kick Panel

**: SPLICE POINTS**

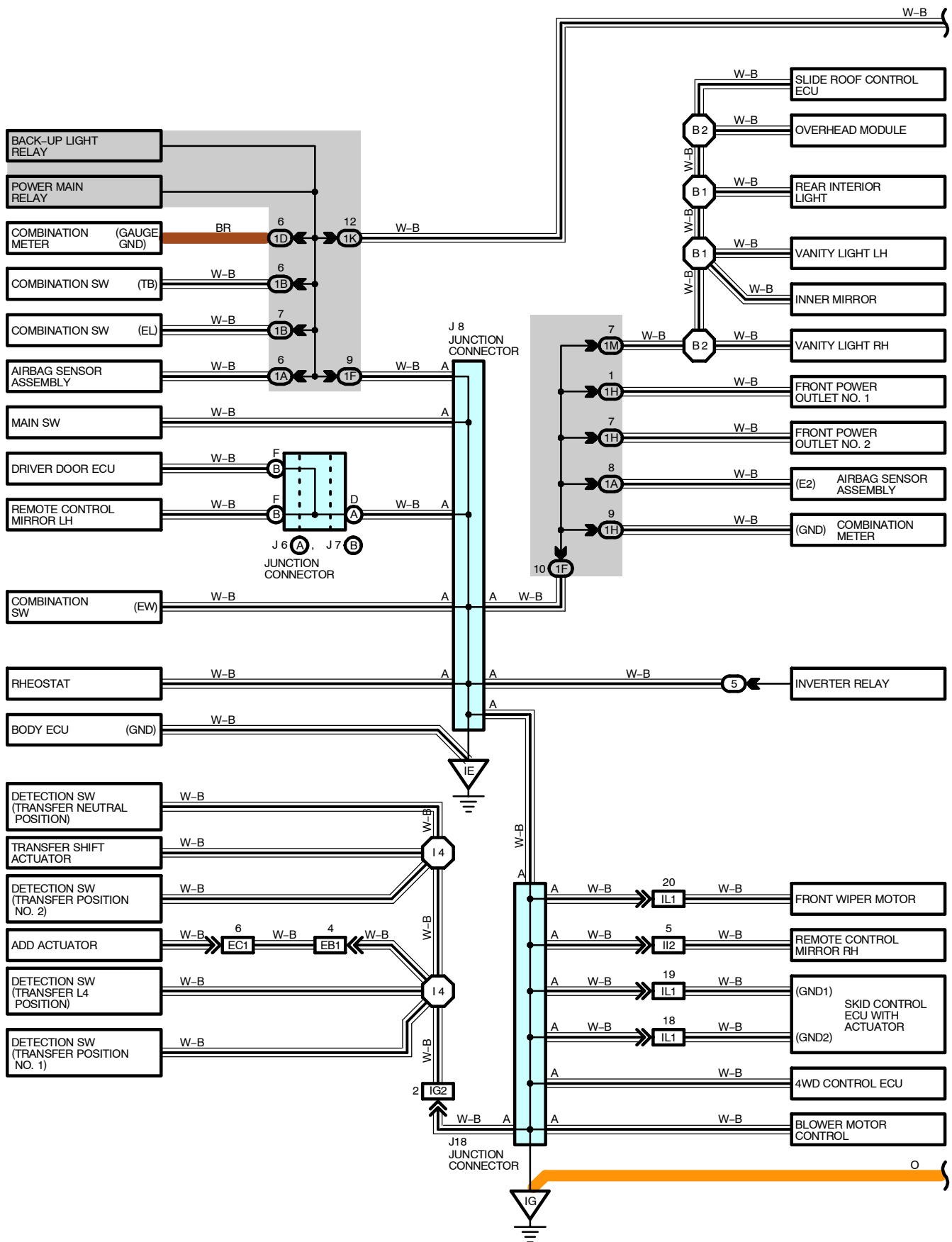
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I5	50	Cowl Wire			

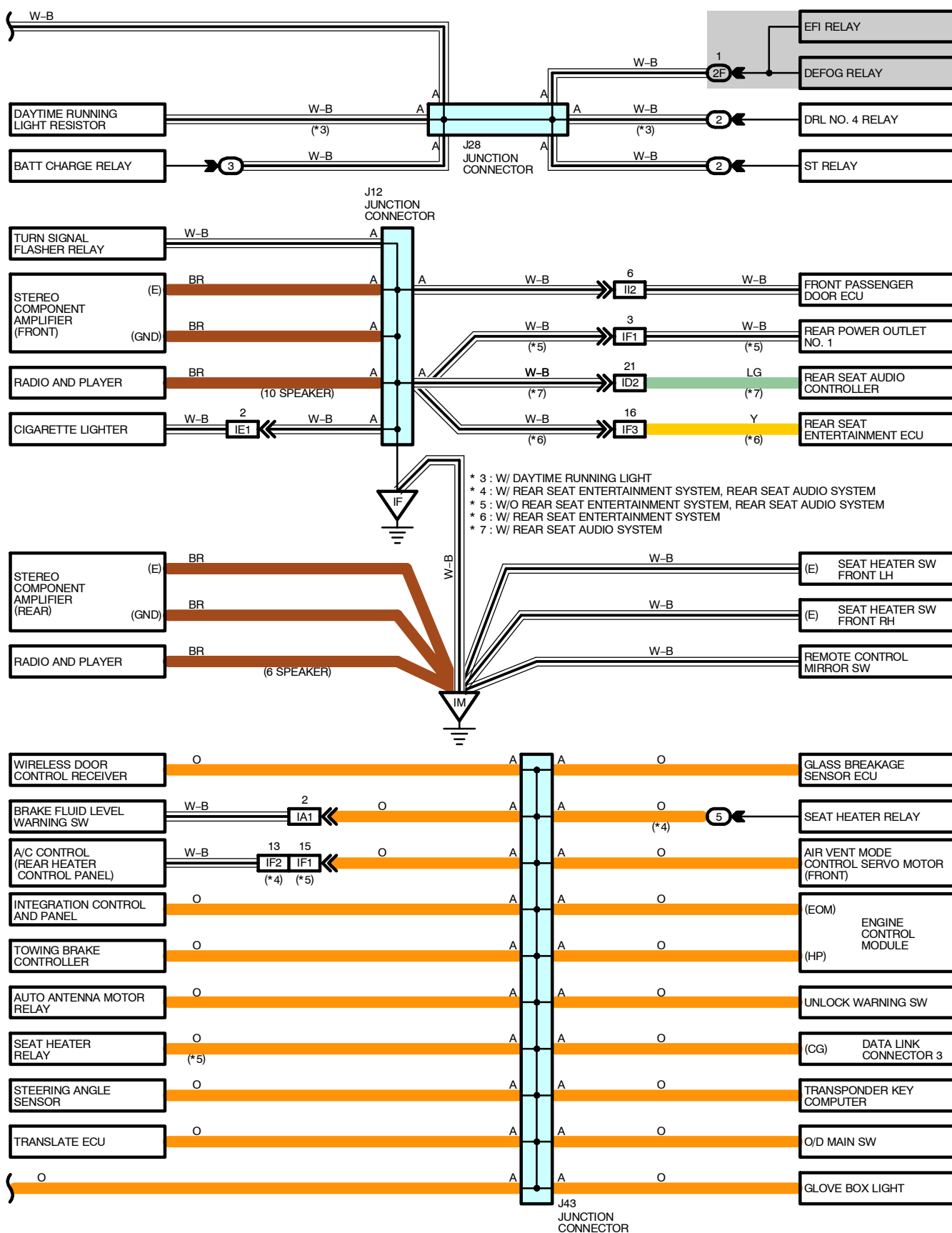
I GROUND POINT





I GROUND POINT





I GROUND POINT

: PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
J1	37	J12	40	J27	44
J5	37	J18	40	J28	37
J6	A 40	J19	42	J43	40
J7	B 40	J22	42		
J8	40	J25	44		

: RELAY BLOCKS

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)
3	23	Engine Room R/B No.3 (Engine Compartment Left)
5	23	Driver Side R/B (Under the Instrument Panel J/B)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1A	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1B		
1D		
1F		
1H		
1M	29	Roof Wire and Instrument Panel J/B (Lower Finish Panel)
2F	25	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine No.2 Wire and Engine Wire (Near the Starter)
EC1	46	Engine No.2 Wire and Differential Wire (Near the Transmission)
IA1	48	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
ID2	48	Cowl Wire and Roof Wire (Left Side of Instrument Panel)
IE1	48	Cigarette Lighter Wire and Cowl Wire (Instrument Panel Brace LH)
IF1	48	Console Box Wire and Cowl Wire (Rear Console)
IF2		
IF3		
IG2	50	Engine Wire and Cowl Wire (Right Side of Instrument Panel)
IG3		
II2	50	Front Door RH Wire and Cowl Wire (Right Kick Panel)
IL1	50	Engine Room Main Wire and Cowl Wire (Right Side of Instrument Panel)
BA1	52	Rear Door No.2 Wire and Floor No.2 Wire (Left Side of Center Pillar)
BB1	52	Frame Wire and Floor No.1 Wire (Under the Front Passenger's Seat)
BC1	52	Rear Door No.1 Wire and Floor No.1 Wire (Right Side of Center Pillar)
BD1	52	Back Door No.1 Wire and Floor No.2 Wire (Left Rear Side of Roof)
BD2		
BF1	52	Back Door No.2 Wire and Back Door No.1 Wire (Left Side of Back Door)
BG2	52	Floor No.2 Wire and Frame No.3 Wire (Left Side of Rear Floor Crossmember)
BI1	54	Floor No.2 Wire and Seat No.2 Wire (Under the Driver's Seat)
BK1	54	Floor No.1 Wire and Seat No.1 Wire (Under the Front Passenger's Seat)

**: GROUND POINTS**

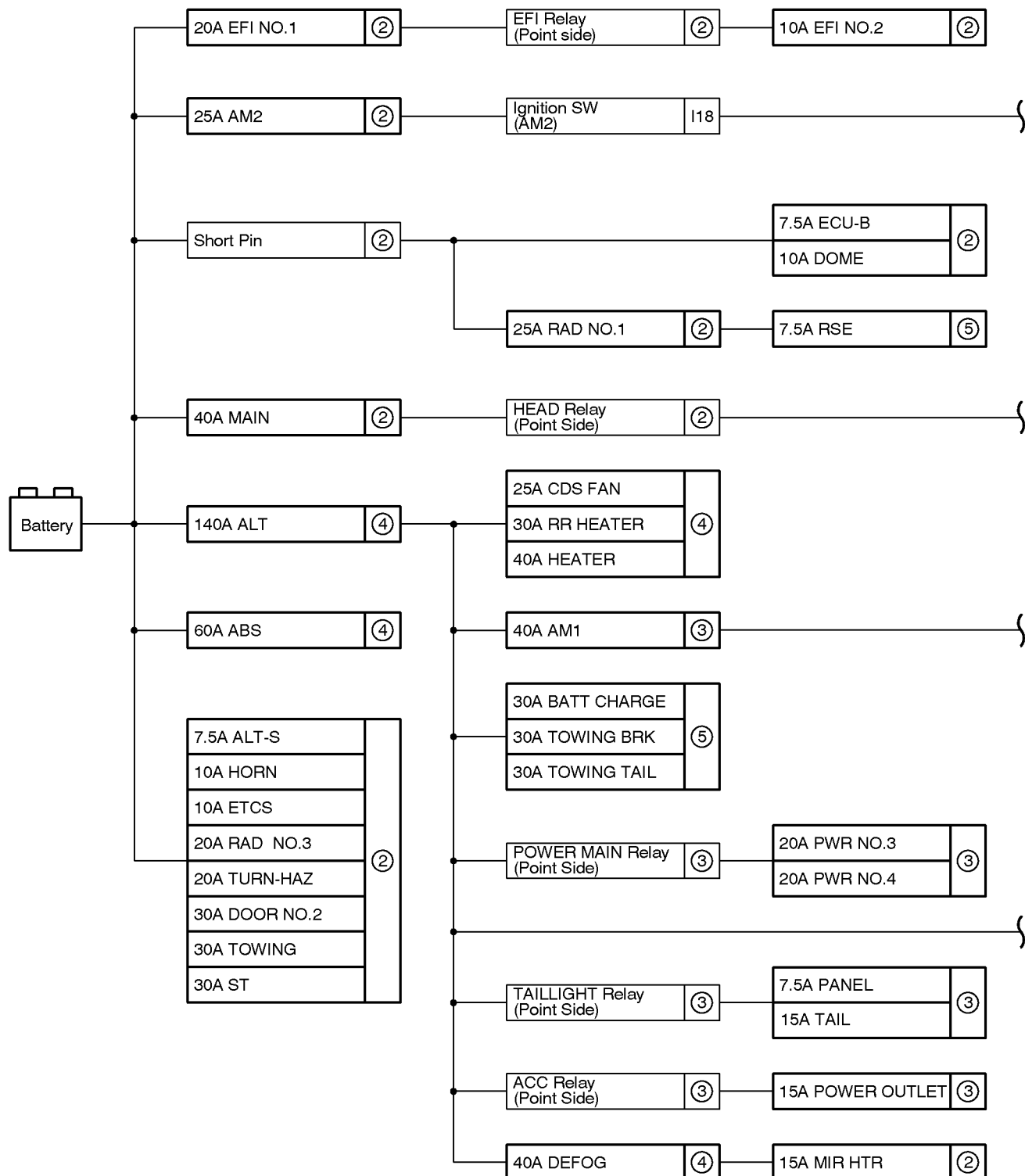
Code	See Page	Ground Points Location
EA	46	Radiator Side Support RH
EB	46	Rear Bank of Right Cylinder Head
EC	46	Rear Bank of Left Cylinder Head
ED	46	Front Left Fender Apron
IE	48	Left Kick Panel
IF	48	Instrument Panel Brace LH
IG	48	Right Kick Panel
IM	48	Rear Consol
BH	52	Left Side of Center Pillar
BI	52	Left Side of Room Partition Crossmember
BJ	52	Left Side of Rear Quarter Panel
BK	52	Right Side of Center Pillar

**: SPLICE POINTS**

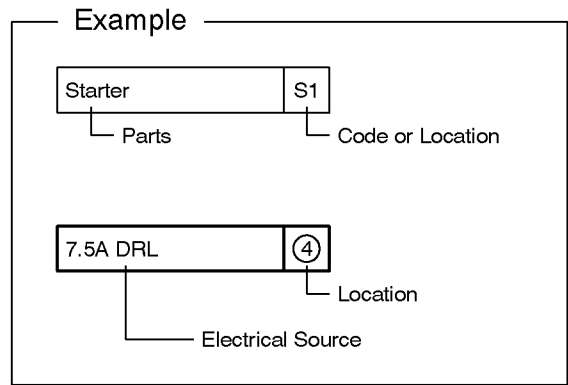
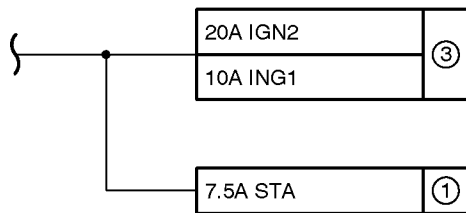
Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E2	46	Engine Wire	B2	52	Roof Wire
I4	50		B3	52	Frame Wire
B1	52	Roof Wire	B4	52	Back Door No.2 Wire

J POWER SOURCE (Current Flow Chart)

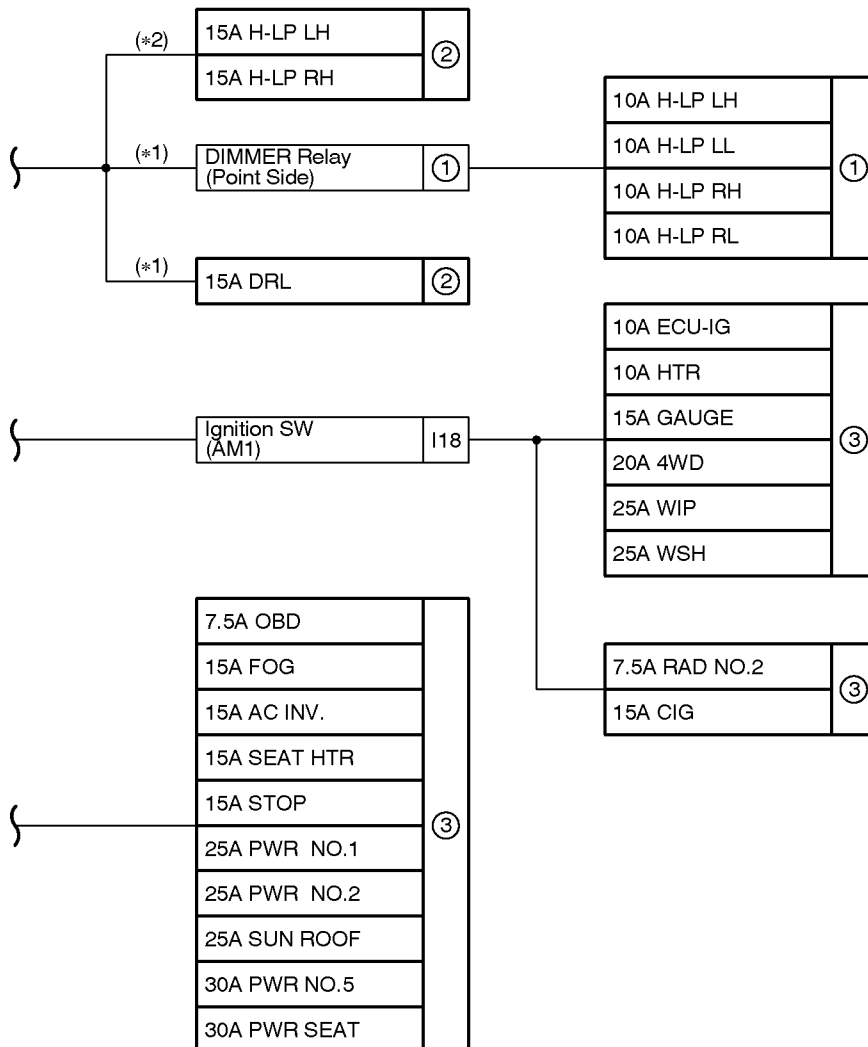
The chart below shows the route by which current flows from the battery to each electrical source (Fusible Link, Circuit Breaker, Fuse, etc.) and other Parts.



[LOCATION] ① : Engine Room R/B No.2 (See Page 22) ② : Engine Room J/B (See Page 24)
 ⑤ : Engine Room R/B No.3 (See Page 23)



*1 : w/ Daytime Running Light
 *2 : w/o Daytime Running Light



③ : Instrument Panel J/B (See Page 28)

④ : Fusible Link Block (F10 on See Page 22)

J POWER SOURCE (Current Flow Chart)

Engine Room R/B No.2 (See Page 22)

Fuse		System	Page
7.5A	STA	Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
		Starting	62
10A	H-LP LH	Headlight (w/ Daytime Running Light)	84
		Multiplex Communication System	114
10A	H-LP LL	Fog Light (w/ Daytime Running Light)	90
		Headlight (w/ Daytime Running Light)	84
		Multiplex Communication System	114
10A	H-LP RH	Headlight (w/ Daytime Running Light)	84
		Multiplex Communication System	114
10A	H-LP RL	Headlight (w/ Daytime Running Light)	84
		Multiplex Communication System	114

Engine Room J/B (See Page 24)

Fuse		System	Page
7.5A	ALT-S	Charging	68
7.5A	ECU-B	Auto Antenna	228
		Automatic Light Control	136
		Combination Meter	246
		Door Lock Control and Theft Deterrent	154
		Engine Immobiliser System	80
		Interior Light	142
		Key Reminder and Seat Belt Warning	138
		Light Auto Turn Off	132
		Multiplex Communication System	114
		Power Window	148
		Radio and Player (Rear Seat Entertainment System Type)	230
		Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	-
		Radio and Player (6 Speaker)	244
10A	DOME	Rear Wiper and Washer	174
		Wireless Door Lock Control	164
		Auto Antenna	228
		Interior Light	142
10A	EFI NO.2	Key Reminder and Seat Belt Warning	138
		Multiplex Communication System	114
10A	EFI NO.2	Engine Control	70

* These are the page numbers of the first page on which the related system is shown.

10A	ETCS	Cruise Control	184
		Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
10A	HORN	Door Lock Control and Theft Deterrent	154
		Horn	214
		Multiplex Communication System	114

Fuse		System	Page
15A	DRL	Headlight (w/ Daytime Running Light)	84
		Multiplex Communication System	114
15A	H-LP LH	Fog Light (w/o Daytime Running Light)	92
		Headlight (w/o Daytime Running Light)	88
		Multiplex Communication System	114
15A	H-LP RH	Fog Light (w/o Daytime Running Light)	92
		Headlight (w/o Daytime Running Light)	88
		Multiplex Communication System	114
15A	MIR HTR	Rear Window Defogger and Mirror Heater	226
20A	EFI NO.1	Cruise Control	184
		Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
		Engine Immobiliser System	80
20A	RAD NO.3	Radio and Player (Rear Seat Entertainment System Type)	230
		Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	-
20A	TURN-HAZ	Trailer Towing	104
		Turn Signal and Hazard Warning Light	102
25A	AM2	Ignition	64
		Starting	62
25A	RAD NO.1	Radio and Player (Rear Seat Entertainment System Type)	230
		Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	-
		Radio and Player (6 Speaker)	244
30A	DOOR NO.2	Door Lock Control and Theft Deterrent	154
		Multiplex Communication System	114
		Power Window	148
		Wireless Door Lock Control	164
30A	ST	Starting	62
30A	TOWING	Trailer Towing	104
40A	MAIN	Automatic Light Control	136
		Door Lock Control and Theft Deterrent	154
		Headlight (w/ Daytime Running Light)	84
		Headlight (w/o Daytime Running Light)	88
		Light Auto Turn Off	132
		Multiplex Communication System	114

Instrument Panel J/B (See page 28)

Fuse		System	Page
7.5A	OBD	Engine Control	70
7.5A	PANEL	Combination Meter	246
		Illumination	98
7.5A	RAD NO.2	Auto Antenna	228
		Cigarette Lighter and Power Outlet (12V)	208

* These are the page numbers of the first page on which the related system is shown.

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
7.5A	RAD NO.2	Multiplex Communication System	114
		Radio and Player (Rear Seat Entertainment System Type)	230
		Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	---
		Radio and Player (6 Speaker)	244
10A	ECU-IG	Accessory Meter and Garage Door Opener	206
		Auto Antenna	228
		Automatic Glare-Resistant EC Mirror	212
		Automatic Light Control	136
		Charging	68
		Door Lock Control and Theft Deterrent	154
		Interior Light	142
		Light Auto Turn Off	132
		Moon Roof	216
		Multiplex Communication System	114
		Power Outlet (115V)	210
		Power Window	148
		Rear Wiper and Washer	174
		SRS	201
		Stop Light	110
		Trailer Towing	104
		VSC	188
		Wireless Door Lock Control	164
10A	HTR	Air Conditioning (Dual A/C)	252
		Air Conditioning (Single A/C)	262
		Door Lock Control and Theft Deterrent	154
		Multiplex Communication System	114
		Rear Window Defogger and Mirror Heater	226
10A	IGN1	Charging	68
		Combination Meter	246
		Cruise Control	184
		Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
		Engine Immobiliser System	80
		SRS	201
15A	AC INV.	Power Outlet (115V)	210
15A	CIG	Air Conditioning (Dual A/C)	252
		Air Conditioning (Single A/C)	262
		Cigarette Lighter and Power Outlet (12V)	208
		Remote Control Mirror	218
15A	FOG	Fog Light (w/ Daytime Running Light)	90
		Fog Light (w/o Daytime Running Light)	92
		Multiplex Communication System	114

* These are the page numbers of the first page on which the related system is shown.

Fuse		System	Page
15A	GAUGE	Accessory Meter and Garage Door Opener	206
		Air Conditioning (Dual A/C)	252
		Air Conditioning (Single A/C)	262
		Back-Up Light	108
		Combination Meter	246
		Cruise Control	184
		Door Lock Control and Theft Deterrent	154
		Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
		Key Reminder and Seat Belt Warning	138
		Seat Heater	224
		SRS	201
		Trailer Towing	104
		Turn Signal and Hazard Warning Light	102
		VSC	188
		4WD	196
15A	PWR OUTLET	Cigarette Lighter and Power Outlet (12V)	208
15A	SEAT HTR	Seat Heater	224
15A	STOP	Cruise Control	184
		Electronically Controlled Transmission and A/T Indicator	178
		Engine Control	70
		Multiplex Communication System	114
		Stop Light	110
		Trailer Towing	104
		VSC	188
15A	TAIL	Engine Control	70
		Taillight	94
		Trailer Towing	104
20A	IGN2	Combination Meter	246
		Engine Control	70
		Ignition	64
20A	PWR NO.3	Multiplex Communication System	114
		Power Window	148
20A	PWR NO.4	Multiplex Communication System	114
		Power Window	148
20A	4WD	4WD	196

* These are the page numbers of the first page on which the related system is shown.

25A	PWR NO.1	Door Lock Control and Theft Deterrent Multiplex Communication System Power Window Wireless Door Lock Control	154 114 148 164
25A	PWR NO.2	Door Lock Control and Theft Deterrent Multiplex Communication System Power Window Wireless Door Lock Control	154 114 148 164

J POWER SOURCE (Current Flow Chart)

Fuse		System	Page
25A	SUN ROOF	Moon Roof	216
25A	WIP	Front Wiper and Washer	172
25A	WSH	Front Wiper and Washer	172
		Multiplex Communication System	114
		Rear Wiper and Washer	174
30A	PWR NO.5	Door Lock Control and Theft Deterrent	154
		Multiplex Communication System	114
		Power Window	148
		Rear Wiper and Washer	174
		Wireless Door Lock Control	164
30A	PWR SEAT	Power Seat	220

Fusible Link Block (F10 on See Page 22)

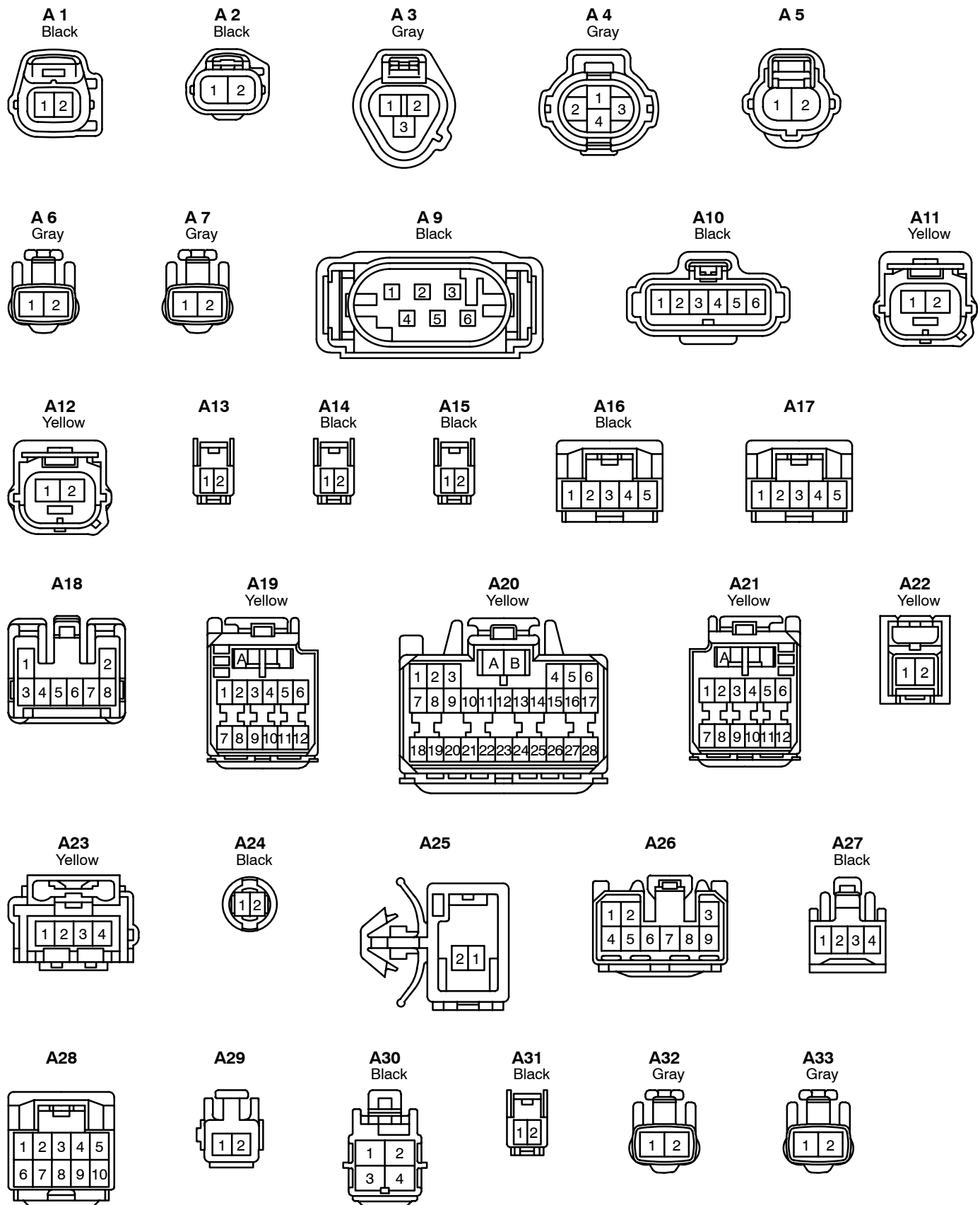
Fuse		System	Page
25A	CDS FAN	Air Conditioning (Dual A/C)	252
		Air Conditioning (Single A/C)	262
30A	RR HEATER	Air Conditioning (Dual A/C)	252
40A	DEFOG	Rear Window Defogger and Mirror Heater	226
40A	HEATER	Air Conditioning (Dual A/C)	252
		Air Conditioning (Single A/C)	262
60A	ABS	VSC	188
140A	ALT	Automatic Light Control	136
		Charging	68
		Cigarette Lighter and Power Outlet (12V)	208
		Door Lock Control and Theft Deterrent	154
		Illumination	98
		Light Auto Turn Off	132
		Multiplex Communication System	114
		Power Window	148
		Taillight	94
		Wireless Door Lock Control	164

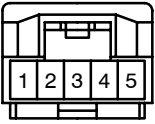
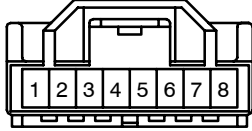
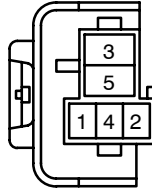
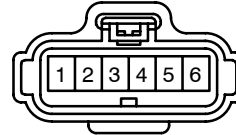
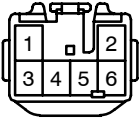
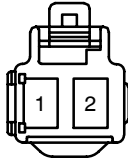
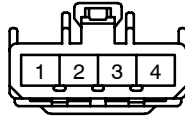
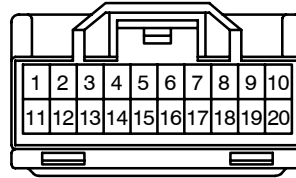
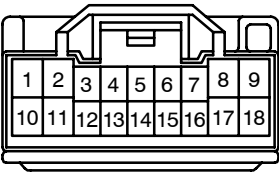
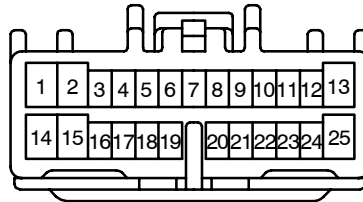
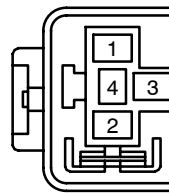
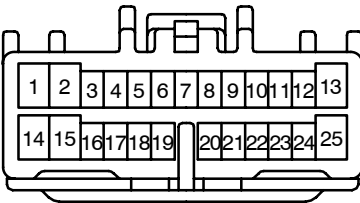
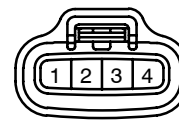
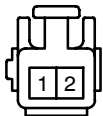
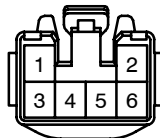
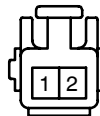
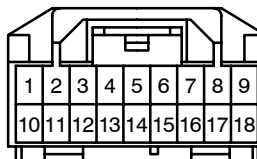
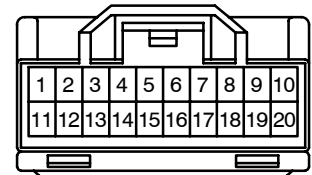
Engine Room R/B No.3 (See Page 23)

Fuse		System	Page
7.5A	RSE	Radio and Player (Rear Seat Entertainment System Type)	230
		Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	-
30A	BATT CHARGE	Trailer Towing	104
30A	TOWING BRK	Trailer Towing	104
30A	TOWING TAIL	Multiplex Communication System	114
		Trailer Towing	104

* These are the page numbers of the first page on which the related system is shown.

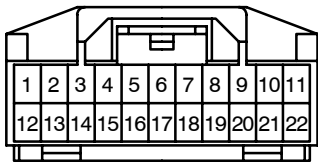
K CONNECTOR LIST



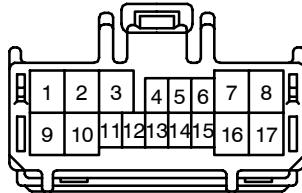
A34
Black**A35****A36**
Gray**A37**
Black**B 1**
Gray**B 2****B 3**
Black**B 4**
Black**B 5****B 6**
Gray**B 7**
Black**B 8****B 9****B10****B11****B12**
Gray**B13**
Black**B14**
Gray**B15**
Black**B16**
(w/ Power Seat)**B16**
(w/o Power Seat)**B17**
(w/ Power Seat)**B17**
(w/o Power Seat)**C 1**
Dark Gray**C 2**
Dark Gray**C 3****C 4**
Gray**C 5**
Gray**C 6**
Black

K CONNECTOR LIST

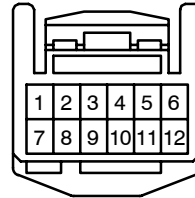
C 7



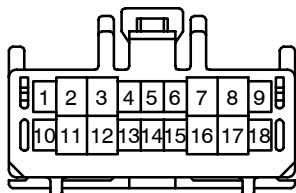
C 8



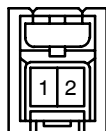
C 9



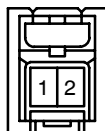
C10
Black



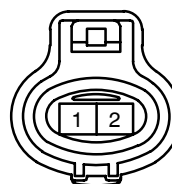
C11
Yellow



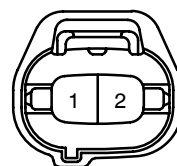
C12
Yellow



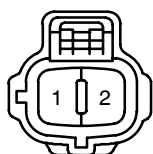
D 1
Gray



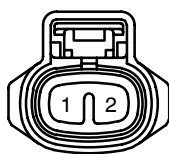
D 2
Blue



D 3
Gray



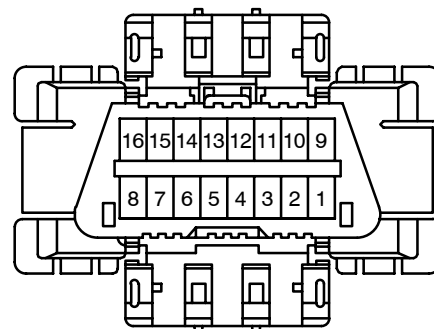
D 4
Gray



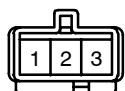
D 5
Gray



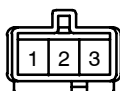
D 6



D 8
Orange



D 9
Orange



D10
Gray



D11
Gray



D12
Gray



D13
Gray



D14



D15



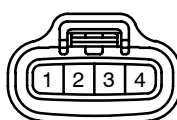
D16



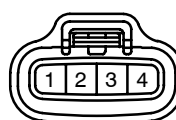
D17



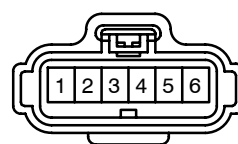
D18
Black



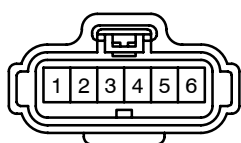
D19
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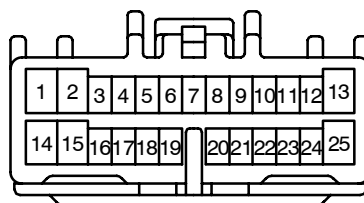
D20
Black



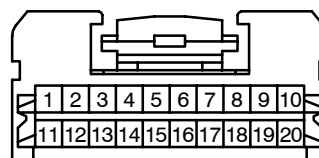
D21
Black



D22
Black



D23



E 1
Gray



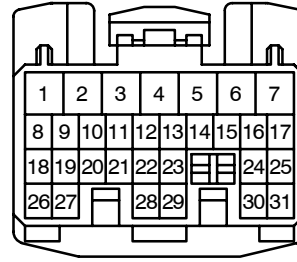
E 2
Black



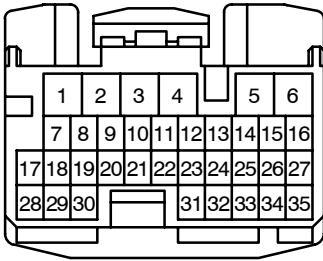
E 3
Black



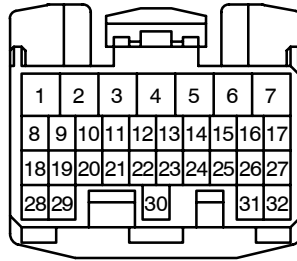
E 4



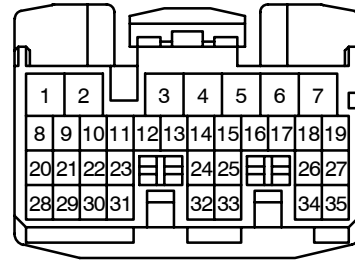
E 5



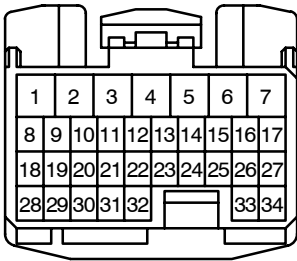
E 6



E 7



E 8



F 1
Brown



F 2
Brown



F 3
Gray



F 4
Gray



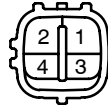
F 5
Gray



F 6
Gray



F 7
Dark Gray



F 8
Black



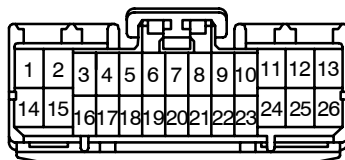
F 9
Dark Gray



F 10
Black

(See Page 22)

F 11



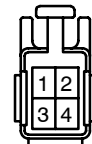
F 12



F 13



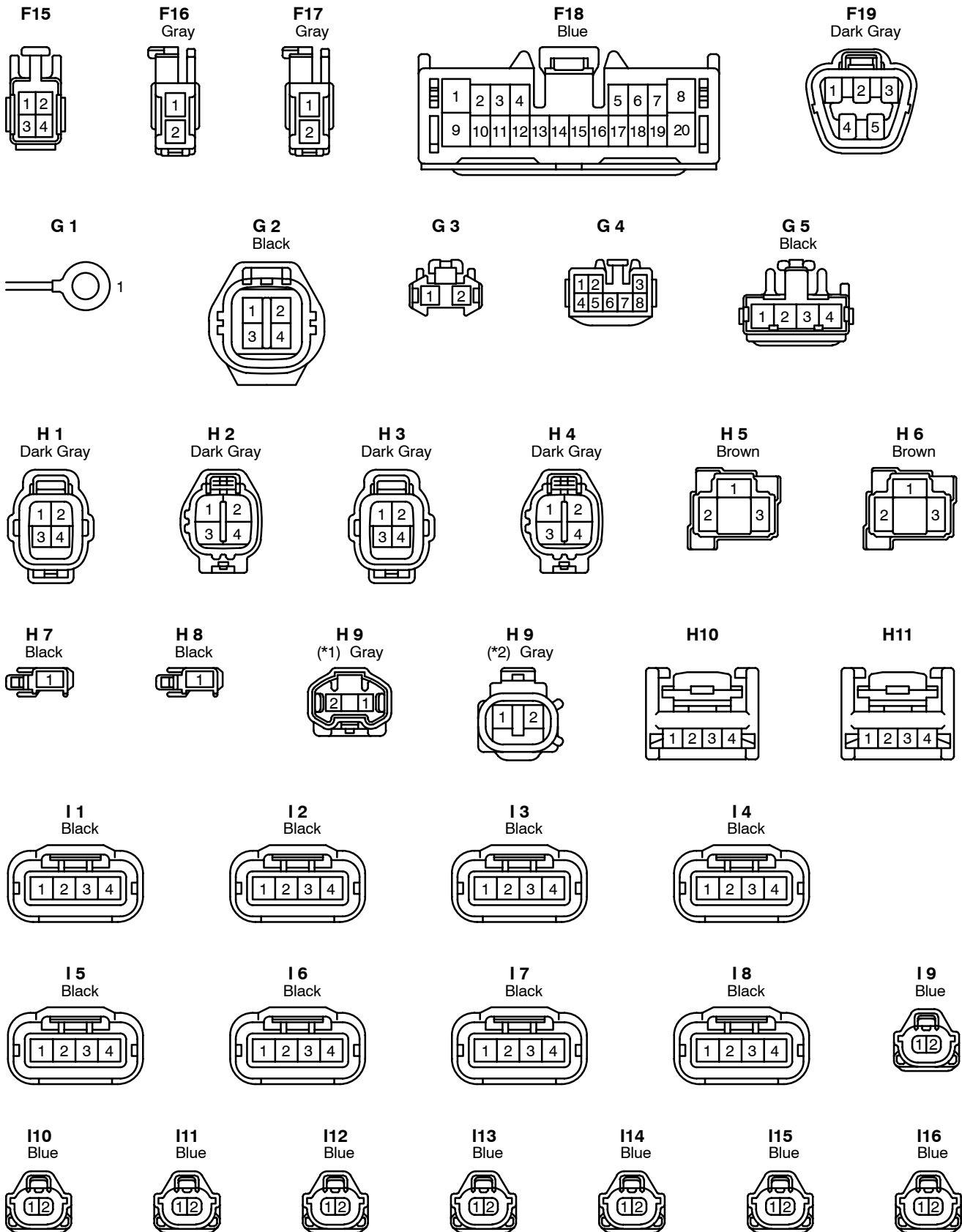
F 14

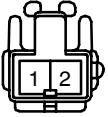
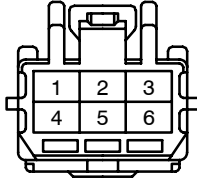
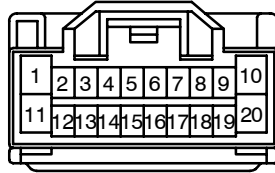
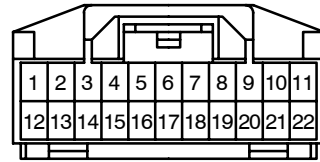
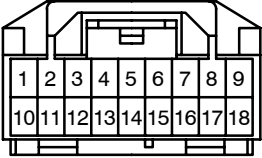
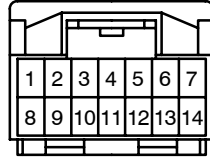
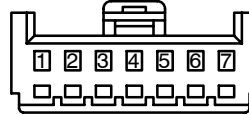
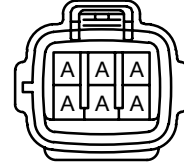
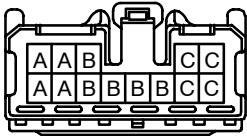
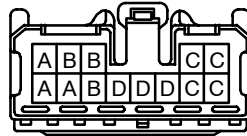
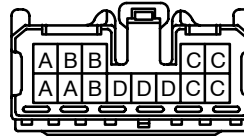
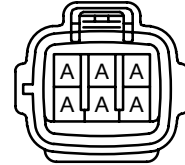
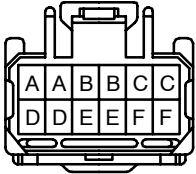
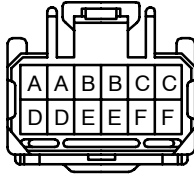
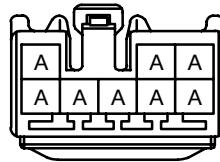
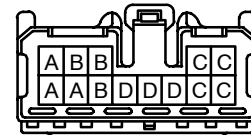
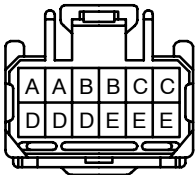
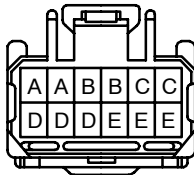
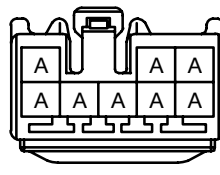
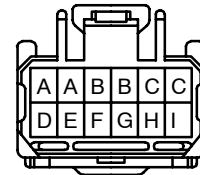
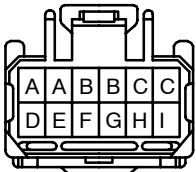
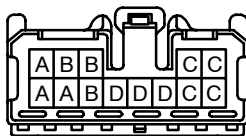
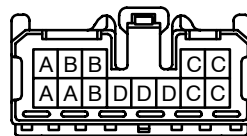
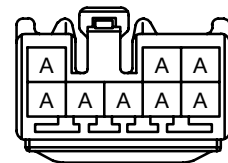


K CONNECTOR LIST

*1 : w/ Rear Spoiler

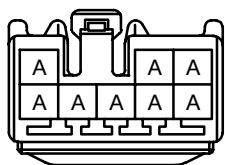
*2 : w/o Rear Spoiler



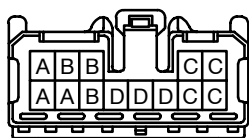
I17**I18****I19**
Black**I20****I21**
Gray**I22**
Blue**I23**
Black**J 1**
Gray**J 2****J 3**
Blue**J 4**
Blue**J 5**
Gray**J 6****J 7****J 8****J 9**
Blue**J10**
Black**J11**
Black**J12****J14**
Brown**J15**
Brown**J16**
Blue**J17**
Blue**J18**

K CONNECTOR LIST

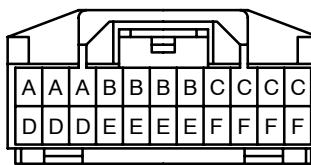
J19



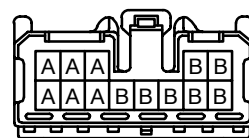
J20
Blue



J21
Black



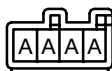
J22
Gray



J24
Black



J25
Black



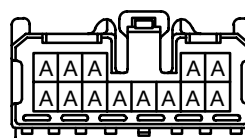
J26
Black



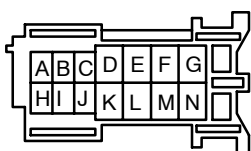
J27
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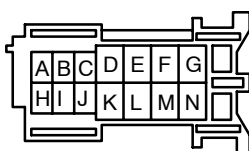
J28
Black



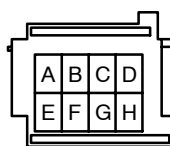
J29



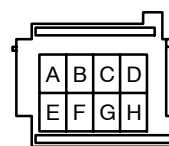
J30



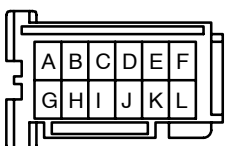
J31



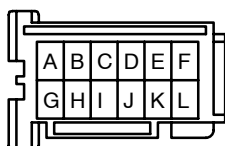
J32



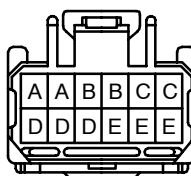
J33



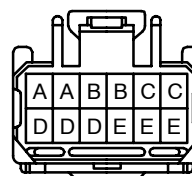
J34



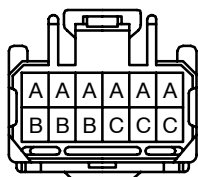
J35
Black



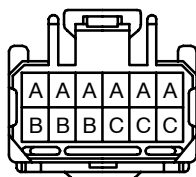
J36
Black



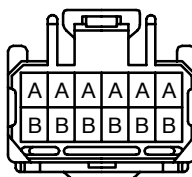
J37
Gray



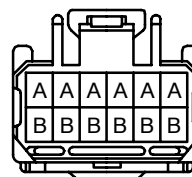
J38
Gray



J39
Blue



J40
Blue



J41
Black



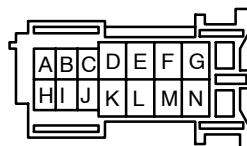
J42
Black



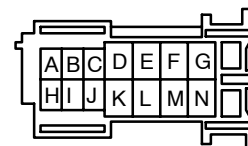
J43



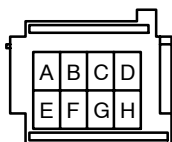
J44



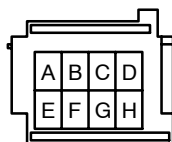
J45



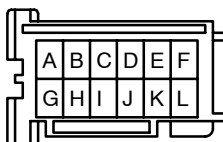
J46



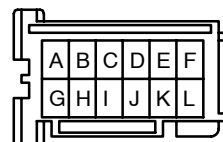
J47



J48

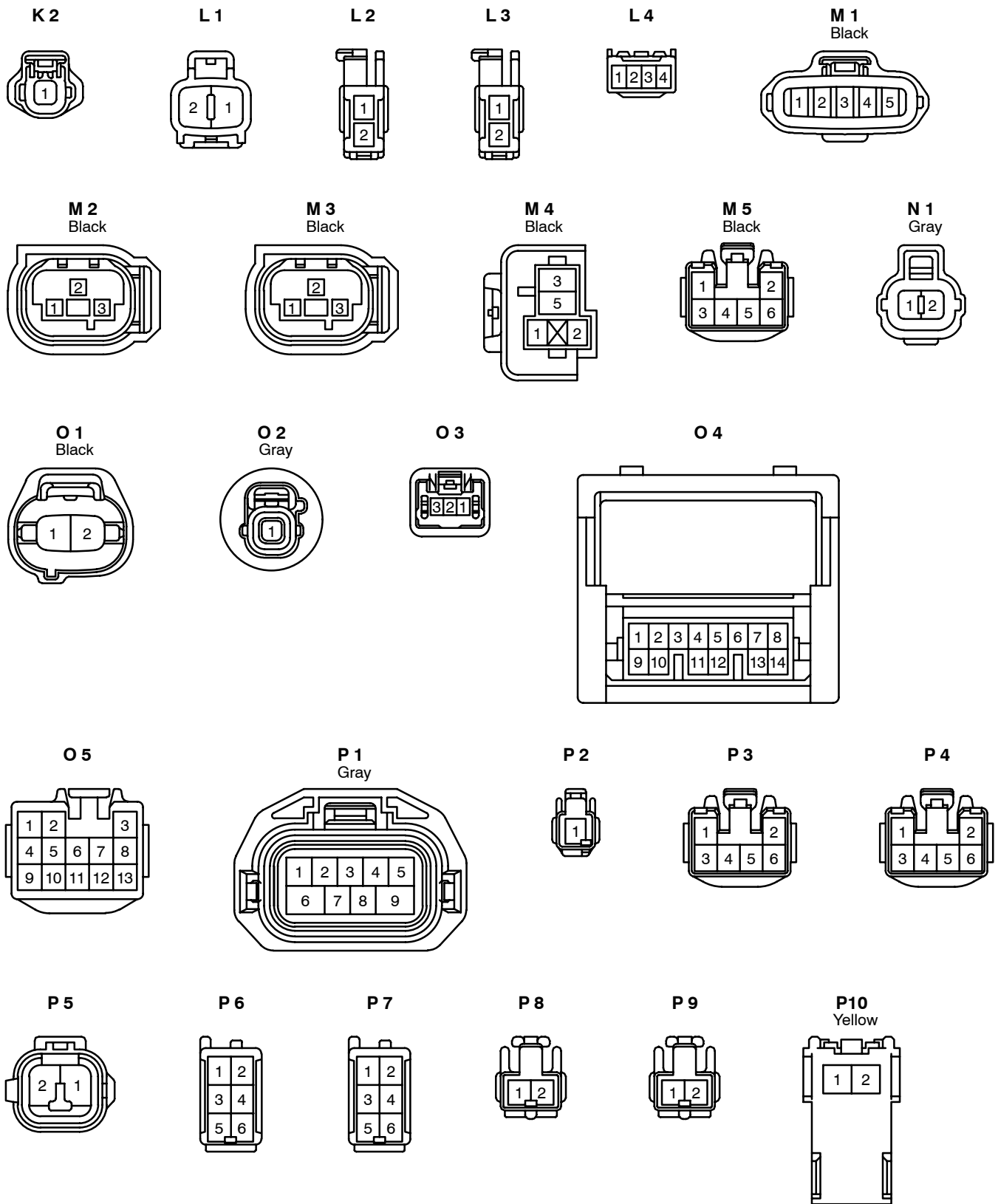


J49

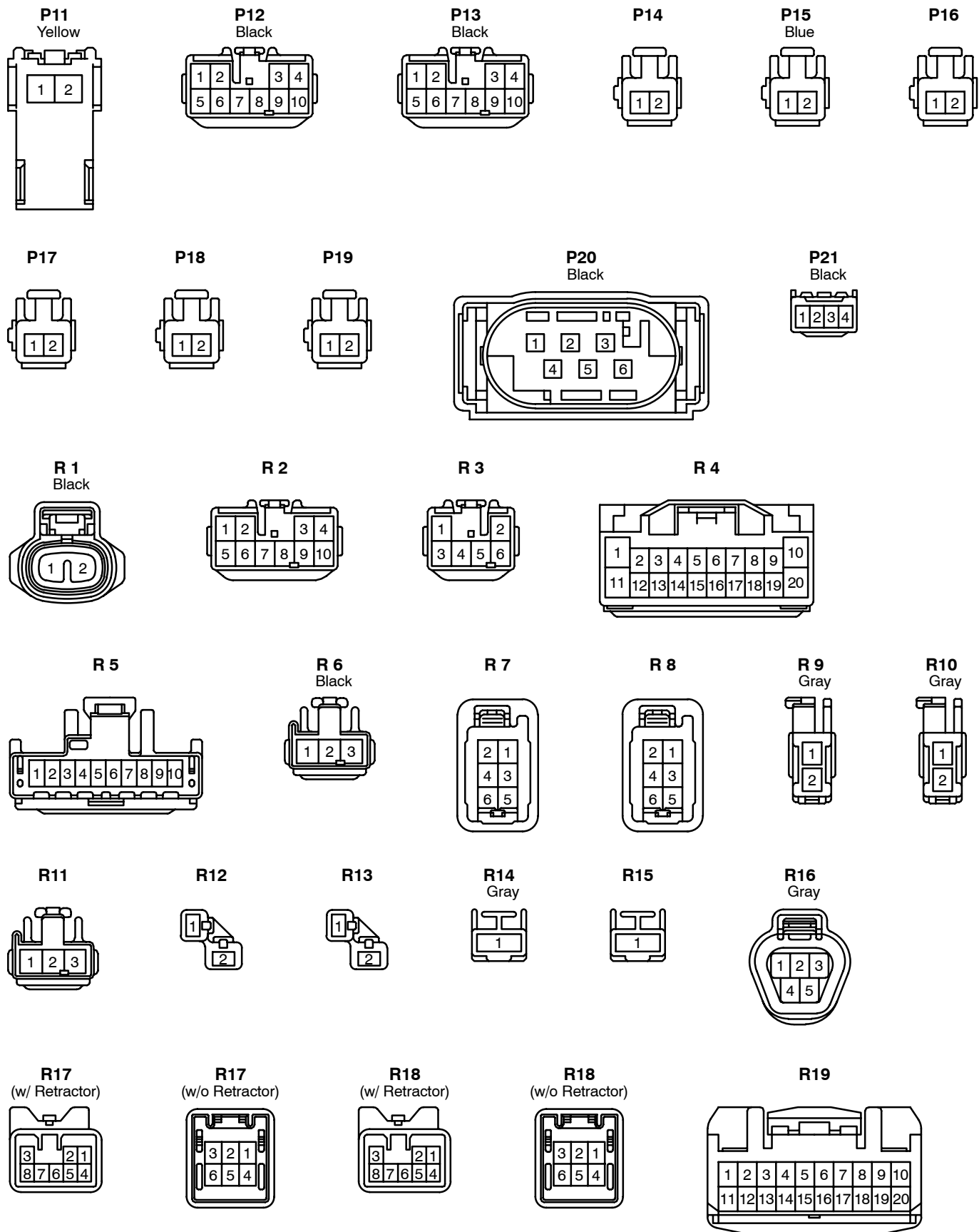


K 1
Dark Gray

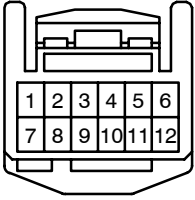




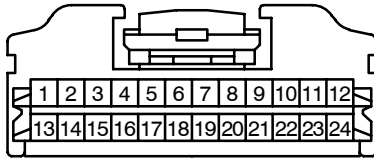
K CONNECTOR LIST



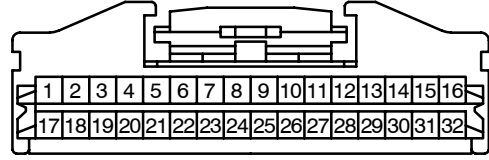
R20



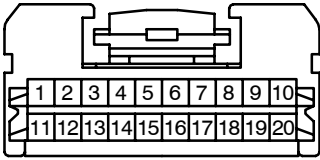
R21



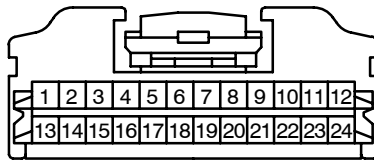
R22



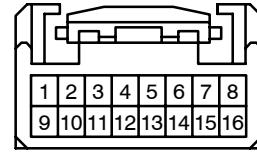
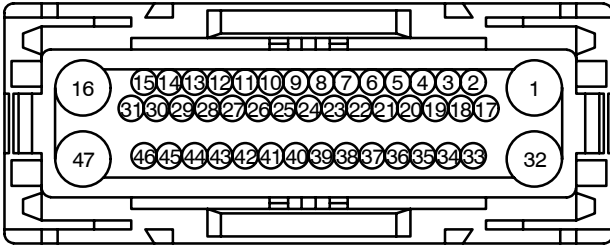
R23



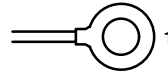
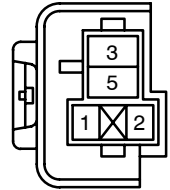
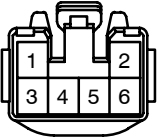
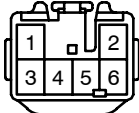
R24



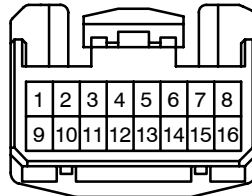
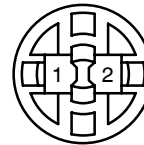
R25

S 1
BlackS 2
Black

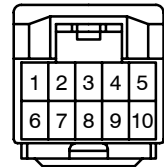
S 3

S 4
BlackS 5
BlackS 6
Brown

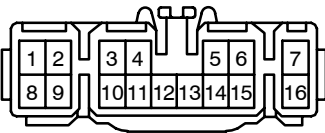
S 7

S 8
Black

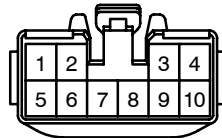
S 9



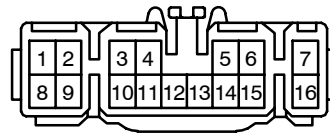
S10



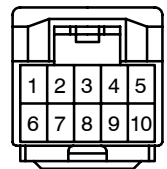
S11



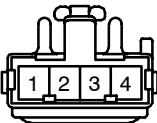
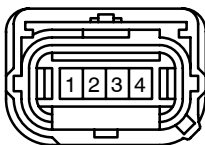
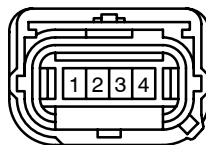
S12



S13

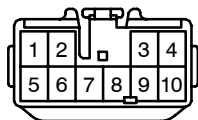


S14

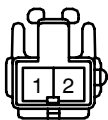
S15
YellowS16
YellowS17
YellowS18
Yellow

K CONNECTOR LIST

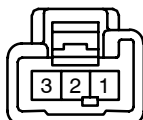
S19



S20



S21



S22



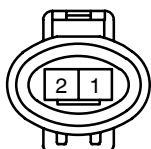
S23



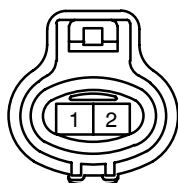
S24



S25
Black



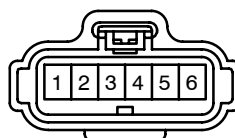
S26
Black



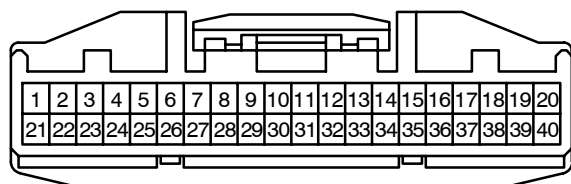
T 1
Black



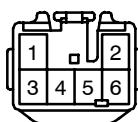
T 4
Black



T 5



T 6



T 7
Black



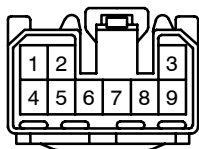
T 8
Gray



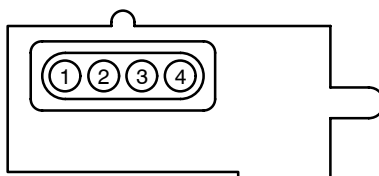
T 9
Gray



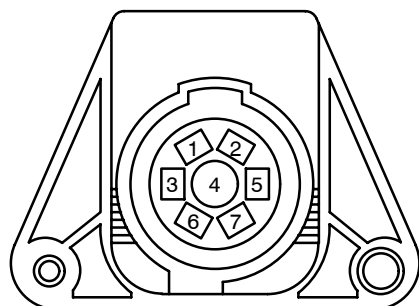
T10



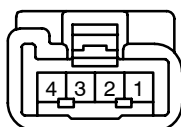
T11
(4 Pin Type) Black



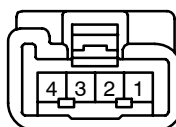
T11
(7 Pin Type) Black



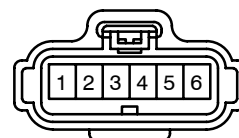
T12



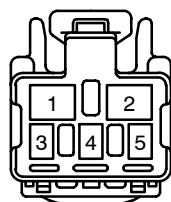
T13



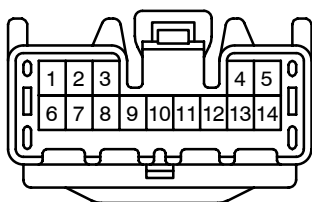
T14
Black



T15



T16



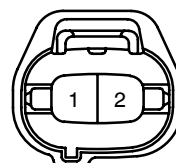
U 1



V 1
Black



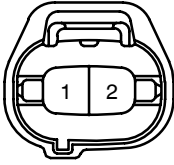
V 2
Black



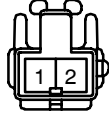
V 3
Gray



V 4
Black



V 5
Black



V 6



V 7



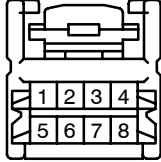
V 8
Black



V 9
Blue



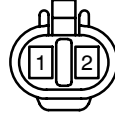
V10



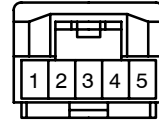
V11



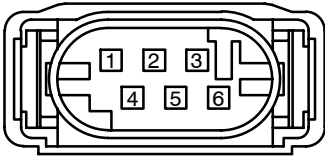
W 1
Black



W 2



Y 1
Black



L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
A 1	A/C Ambient Temp. Sensor	90980-11070	B10	Back Door ECU	90980-11877
A 2	A/C Condenser Fan Motor	90980-11237	B11	Back Door ECU	90980-10799
A 3	A/C Magnetic Clutch and Lock Sensor	90980-11016	B12	Back Door Key Lock and Unlock SW	90980-11015
A 4	A/C Triple Pressure SW (A/C Dual and Single Pressure SW)	90980-10943	B13	Back Door Lock Motor and Back Door Unlock Detection SW	90980-11150
A 5	A/T Oil Temp. Sensor	90980-11025	B14	Back Door Power Window Motor	90980-11003
A 6	ABS Speed Sensor Front LH	90980-11075	B15	Blower Motor (Rear)	90980-10214
A 7	ABS Speed Sensor Front RH		B16	Buckle SW LH (w/ Power Seat)	90980-10825
A 9	Active Brake Booster	90080-98238		Buckle SW LH (w/o Power Seat)	90980-10797
A10	ADD Actuator	90980-11858	B17	Buckle SW RH (w/ Power Seat)	90980-10825
A11	Airbag Sensor Front LH	90980-11856		Buckle SW RH (w/o Power Seat)	90980-11299
A12	Airbag Sensor Front RH		C 1	Camshaft Position Sensor	90980-10947
A13	A/C Evaporator Temp. Sensor (Front)	90980-11918	C 2	Crankshaft Position Sensor	90980-11162
A14	A/C Room Temp. Sensor (Front)		C 3	Cigarette Lighter	90980-10760
A15	A/C Solar Sensor		C 4	Cigarette Lighter Illumination	90980-11148
A16	Air Inlet Control Servo Motor	90980-11909	C 5	Combination Meter	90980-11913
A17	Air Mix Control Servo Motor (Front)		C 6	Combination Meter	90980-11974
A18	Air Vent Mode Control Servo Motor (Front)	90980-11321	C 7	Combination Meter	90980-11915
A19	Airbag Sensor Assembly	90980-11873	C 8	Combination SW	90980-11672
A20	Airbag Sensor Assembly	90980-11872	C 9	Combination SW	90980-12183
A21	Airbag Sensor Assembly	90980-11871	C10	Combination SW	90980-11594
A22	Airbag Squib (Front Passenger Airbag Assembly)	90980-11886	C11	Curtain Airbag Squib LH	90980-11886
A23	Airbag Squib (Steering Wheel Pad)	90980-12160	C12	Curtain Airbag Squib RH	
A24	Ashtray Illumination	-	D 1	Daytime Running Light Resistor	90980-10928
A25	Auto Antenna Motor	90980-11967	D 2	Detection SW (Transfer L4 Position)	90980-11156
A26	Auto Antenna Motor Relay	90980-11535	D 3	Detection SW (Transfer Neutral Position)	90980-10923
A27	Automatic Light Control Sensor	90980-11107	D 4	Detection SW (Transfer Position SW No.1)	90980-11250
A28	A/C Control (Rear Heater Control Panel)	90980-11923	D 5	Detection SW (Transfer Position SW No.2)	90980-11025
A29	A/C Evaporator Temp. Sensor (Rear)	90980-10825	D 6	Data Link Connector 3	90980-11665
A30	A/C Power Transistor	90980-11136	D 8	Diode (Interior Light No.1)	90980-11071
A31	A/C Room Temp. Sensor (Rear)	90980-11918	D 9	Diode (Interior Light No.2)	
A32	ABS Speed Sensor Rear LH	90980-11075	D10	Door Courtesy Light Front LH	90980-11148
A33	ABS Speed Sensor Rear RH		D11	Door Courtesy Light Front RH	
A34	A/C Water Valve (Rear)	90980-11909	D12	Door Courtesy Light Rear LH	
A35	Air Vent Mode Control Servo Motor (Rear)	90980-11989	D13	Door Courtesy Light Rear RH	
A36	ACC Cut Relay	82660-53010	D14	Door Courtesy SW Front LH	90980-10871
A37	Accelerator Pedal Position Sensor	90980-11858	D15	Door Courtesy SW Front RH	
B 1	Brake Fluid Level Warning SW	90980-11207	D16	Door Courtesy SW Rear LH	
B 2	Back Door Power Window Control SW	90980-10996	D17	Door Courtesy SW Rear RH	
B 3	Blower Motor (Front)	90980-10903	D18	Door Lock Motor and Door Unlock Detection SW Rear LH	90980-11150
B 4	Blower Motor Control	90980-11676	D19	Door Lock Motor and Door Unlock Detection SW Rear RH	
B 5	Body ECU	90980-11974			
B 6	Body ECU	90980-11973			
B 7	Body ECU	90980-11877			
B 8	Brake Inhibit Relay	82660-0C010			
B 9	Back Door Courtesy SW	90980-11003			

Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
D20	Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front LH	90980-11858	H 5	Headlight LH	90980-11314
D21	Door Lock Motor, Door Key Lock and Unlock SW and Door Unlock Detection SW Front RH		H 6	Headlight RH	
D22	Driver Door ECU		H 7	Horn (High)	90980-10619
D23	DVD Player	90980-12266	H 8	Horn (Low)	
E 1	Electronically Controlled Transmission Solenoid	90980-10891	H 9	High Mounted Stop Light (w/ Rear Spoiler)	90980-11159
E 2	Engine Coolant Temp. Sensor	90980-10736		High Mounted Stop Light (w/o Rear Spoiler)	90980-11003
E 3	Engine Hood Courtesy SW	90980-11189	H10	Headphone Terminal LH	90980-12263
E 4	Engine Control Module	90980-12142	H11	Headphone Terminal RH	
E 5	Engine Control Module	90980-12146	I 1	Ignition Coil and Igniter No.1	90980-11885
E 6	Engine Control Module	90980-12143	I 2	Ignition Coil and Igniter No.2	
E 7	Engine Control Module	90980-12145	I 3	Ignition Coil and Igniter No.3	
E 8	Engine Control Module	90980-12144	I 4	Ignition Coil and Igniter No.4	
F 1	Front Fog Light LH	90980-11096	I 5	Ignition Coil and Igniter No.5	
F 2	Front Fog Light RH		I 6	Ignition Coil and Igniter No.6	
F 3	Front Turn Signal and Parking Light LH No.1	90980-11020	I 7	Ignition Coil and Igniter No.7	
F 4	Front Turn Signal and Parking Light RH No.1		I 8	Ignition Coil and Igniter No.8	
F 5	Front Turn Signal and Parking Light LH No.2		I 9	Injector No.1	90980-11153
F 6	Front Turn Signal and Parking Light RH No.2		I10	Injector No.2	
F 7	Front Washer Motor and Washer Level Sensor	90980-11177	I11	Injector No.3	
F 8	Front Wiper Motor	90980-11599	I12	Injector No.4	
F 9	Fuel Pump Resistor	90980-10901	I13	Injector No.5	
F10	Fusible Link Block	82620-0C010	I14	Injector No.6	
F11	4WD Control ECU	90980-11423	I15	Injector No.7	
F12	Front Power Outlet No.1	90980-10905	I16	Injector No.8	
F13	Front Power Outlet No.2		I17	Ignition Key Cylinder Light	90980-10906
F14	Front Door Speaker and Woofer LH	90980-10795	I18	Ignition SW	90980-11778
F15	Front Door Speaker and Woofer RH		I19	Integration Control and Panel	90980-11971
F16	Front Door Speaker LH	90980-10935	I20	Integration Control and Panel	90980-11915
F17	Front Door Speaker RH		I21	Integration Control and Panel	90980-11913
F18	Front Passenger Door ECU	90980-11469	I22	Integration Control and Panel	90980-11911
F19	Fuel Pump and Sender	90980-11077	I23	Inner Mirror	90980-11794
G 1	Generator	90980-09876	J 1	Junction Connector	90980-11194
G 2	Generator	90980-11964	J 2	Junction Connector	90980-11542
G 3	Glove Box Light	90980-11148	J 3	Junction Connector	
G 4	Glass Breakage Sensor ECU	90980-10799	J 4	Junction Connector	90980-11194
G 5	Glass Breakage Sensor Microphone	90980-11013	J 5	Junction Connector	
H 1	Heated Oxygen Sensor (Bank 1 Sensor 1)	90980-10869	J 6	Junction Connector	90980-11661
H 2	Heated Oxygen Sensor (Bank 1 Sensor 2)	90980-11028	J 7	Junction Connector	
H 3	Heated Oxygen Sensor (Bank 2 Sensor 1)	90980-10869	J 8	Junction Connector	90980-11686
H 4	Heated Oxygen Sensor (Bank 2 Sensor 2)	90980-11028	J 9	Junction Connector	90980-11542
			J10	Junction Connector	90980-11661
			J11	Junction Connector	
			J12	Junction Connector	90980-11686
			J14	Junction Connector	90980-11661
			J15	Junction Connector	

L PART NUMBER OF CONNECTORS

Code	Part Name	Part Number	Code	Part Name	Part Number
J16	Junction Connector	90980-11542	O 1	O/D Direct Clutch Speed Sensor	90980-11156
J17	Junction Connector		O 2	Oil Pressure Sender	90980-11363
J18	Junction Connector	90980-11686	O 3	O/D Main SW	90980-11470
J19	Junction Connector		O 4	Overhead Module	82824-34020
J20	Junction Connector	90980-11542	O 5	Overhead Module	90980-10805
J21	Junction Connector	90980-11915	P 1	Park/Neutral Position SW	90980-11784
J22	Junction Connector	90980-11542	P 2	Parking Brake SW	90980-10871
J24	Junction Connector	90980-11398	P 3	Power Window Control SW Rear LH	90980-10797
J25	Junction Connector		P 4	Power Window Control SW Rear RH	
J26	Junction Connector		P 5	Power Window Limit SW (Back Door)	90980-11247
J27	Junction Connector		P 6	Power Window Motor Front LH	90980-11011
J28	Junction Connector	90980-11542	P 7	Power Window Motor Front RH	
J29	Junction Connector	90980-12319	P 8	Power Window Motor Rear LH	90980-10860
J30	Junction Connector		P 9	Power Window Motor Rear RH	
J31	Junction Connector	90980-12078	P10	Pretensioner LH	90980-12253
J32	Junction Connector		P11	Pretensioner RH	
J33	Junction Connector	90980-12076	P12	Power Seat Control SW (Driver's Seat)	90980-10997
J34	Junction Connector		P13	Power Seat Control SW (Front Passenger's Seat)	
J35	Junction Connector	90980-11661	P14	Power Seat Motor (Driver's Seat Front Vertical Control)	90980-10825
J36	Junction Connector		P15	Power Seat Motor (Driver's Seat Rear Vertical Control)	
J37	Junction Connector		P16	Power Seat Motor (Driver's Seat Reclining Control)	
J38	Junction Connector		P17	Power Seat Motor (Driver's Seat Slide Control)	
J39	Junction Connector		P18	Power Seat Motor (Front Passenger's Seat Reclining Control)	
J40	Junction Connector		P19	Power Seat Motor (Front Passenger's Seat Slide Control)	
J41	Junction Connector	90980-11398	P20	Pedal Stroke Speed Sensor	90080-98199
J42	Junction Connector	82824-22110	P21	Power Outlet (115V)	90980-10601
J43	Junction Connector		R 1	Rear Washer Motor	90980-11250
J44	Junction Connector	90980-12319	R 2	Radio and Player	90980-10997
J45	Junction Connector		R 3	Radio and Player	90980-10996
J46	Junction Connector	90980-12078	R 4	Radio and Player	90980-12038
J47	Junction Connector		R 5	Remote Control Mirror SW	90980-11657
J48	Junction Connector	90980-12076	R 6	Rheostat	90980-10908
J49	Junction Connector		R 7	Rear Combination Light LH	90980-11587
K 1	Knock Sensor 1	90980-11166	R 8	Rear Combination Light RH	
K 2	Knock Sensor 2		R 9	Rear Door Speaker LH	90980-10935
L 1	License Plate Light	90980-11050	R10	Rear Door Speaker RH	
L 2	Luggage Room Light	90980-10935	R11	Rear Interior Light	90980-10908
L 3	Lumbar Support Control Motor (Driver's Seat)		R12	Rear Power Outlet No.1	90980-10760
L 4	Lumbar Support Control SW (Driver's Seat)	90980-10601	R13	Rear Power Outlet No.2	
M 1	Mass Air Flow Meter	90980-11317			
M 2	Master Cylinder Pressure Sensor No.1	90080-98200			
M 3	Master Cylinder Pressure Sensor No.2				
M 4	Mirror Heater Relay	82660-20340			
M 5	Main SW	90980-10797			
N 1	Noise Filter No.1 (Ignition System)	90980-10843			

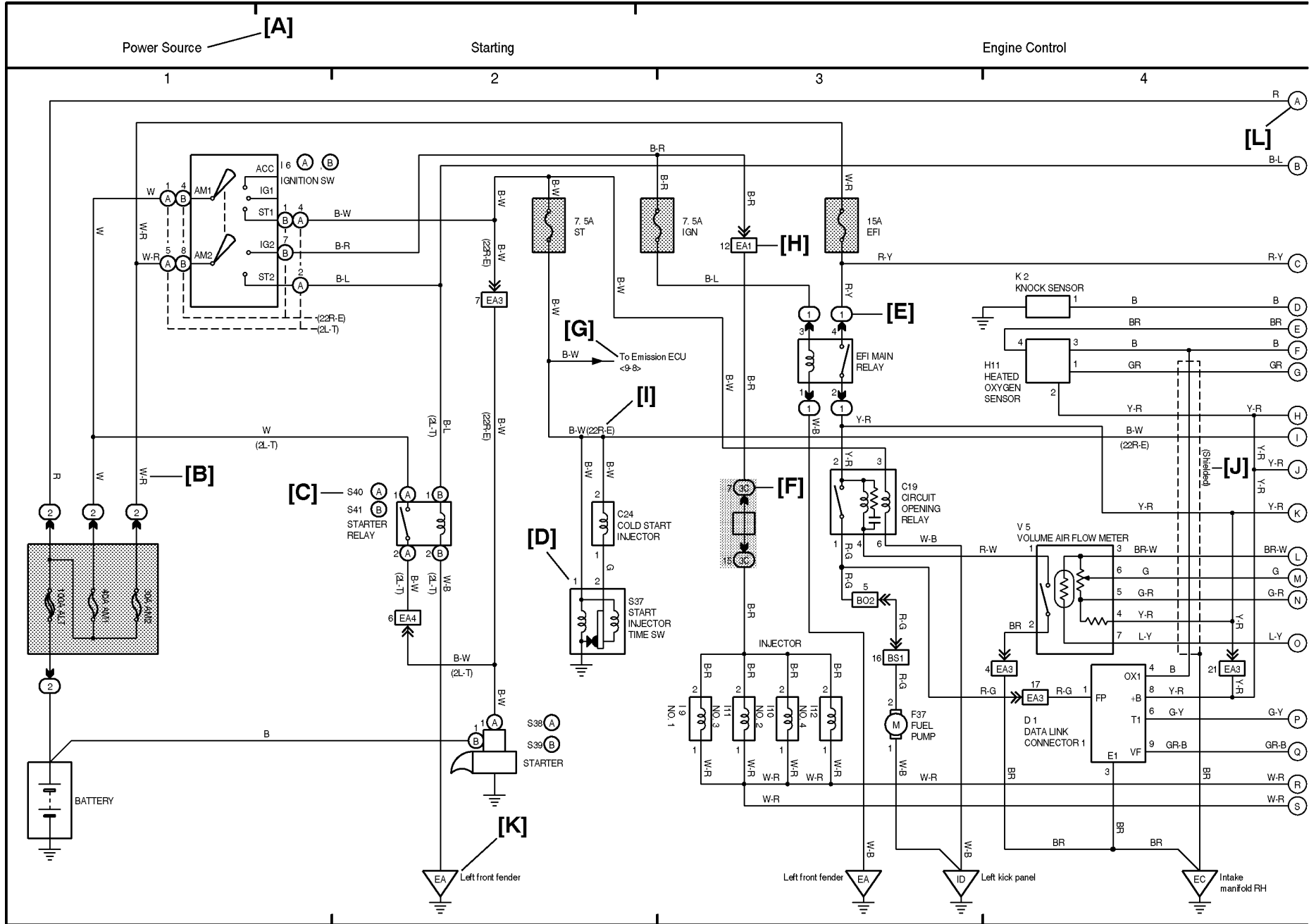
Note: Not all of the above part numbers of the connector are established for the supply.

Code	Part Name	Part Number	Code	Part Name	Part Number
R14	Rear Window Defogger	90980-10359	S22	Seat Heater (Driver's Seat)	90980-11399
R15	Rear Window Defogger		S23	Seat Heater (Front Passenger's Seat Back)	90980-10907
R16	Rear Wiper Motor	90980-11599	S24	Seat Heater (Front Passenger's Seat)	90980-11399
R17	Remote Control Mirror LH (w/ Retractor)	90980-10798	S25	Short Connector (VSC)	90980-10927
	Remote Control Mirror LH (w/o Retractor)	90980-11487	S26	Short Connector (VSC)	90980-10928
R18	Remote Control Mirror RH (w/ Retractor)	90980-10798	T 1	Theft Deterrent Horn	90980-10619
	Remote Control Mirror RH (w/o Retractor)	90980-11487	T 4	Transfer Shift Actuator	90980-11858
R19	Radio and Player	90980-12259	T 5	Translate ECU	90980-12169
R20	Radio and Player	90980-12183	T 6	Transponder Key Amplifier	90980-10996
R21	Rear Seat Entertainment ECU	90980-12267	T 7	Turn Signal Flasher Relay	90980-10799
R22	Rear Seat Entertainment ECU	90980-12268	T 8	Taillight LH	90980-11073
R23	Rear Seat Entertainment ECU	90980-12266	T 9	Taillight RH	
R24	Rear Seat Audio Controller	90980-12267	T10	Towing Converter Relay	90980-11535
R25	Rear Seat Entertainment Display	90980-12156	T11	Trailer Socket (4 Pin Type)	82824-34040
S 1	Skid Control ECU with Actuator	90080-98305		Trailer Socket (7 Pin Type)	82824-34050
S 2	Starter	90980-11400	T12	Tweeter LH	90980-11012
S 3	Starter	90980-09585	T13	Tweeter RH	
S 4	Seat Heater Relay	82660-20340	T14	Throttle Control Motor and Position Sensor	90980-11858
S 5	Seat Heater SW Front LH	90980-10797	T15	Towing Brake Controller	90980-11603
S 6	Seat Heater SW Front RH	90980-10996	T16	Transponder Key Computer	90980-11556
S 7	Steering Angle Sensor	90980-12155	U 1	Unlock Warning SW	90980-10860
S 8	Step Light	81945-33010	V 1	Vehicle Speed Sensor (Combination Meter)	90980-11143
S 9	Stereo Component Amplifier (Front)	90980-11923	V 2	Vehicle Speed Sensor (Electronically Controlled Transmission)	90980-11156
S10	Stereo Component Amplifier (Front)	90980-10848	V 3	VSV (Canister Closed Valve)	90980-11162
S11	Stereo Component Amplifier (Front)	90980-10801	V 4	VSV (EVAP)	90980-11156
S12	Stereo Component Amplifier (Rear)	90980-10848	V 5	VSC Warning Buzzer	90980-10906
S13	Stereo Component Amplifier (Rear)	90980-11923	V 6	Vanity Light LH	90980-11369
S14	Stop Light SW	90980-11013	V 7	Vanity Light RH	
S15	Side Airbag Sensor LH	90980-12225	V 8	Vapor Pressure Sensor	90980-11143
S16	Side Airbag Sensor RH		V 9	VSV (Pressure Switching Valve)	90980-11859
S17	Side Airbag Squib LH	90980-11864	V10	Video Terminal	90980-12264
S18	Side Airbag Squib RH		V11	Voltage Inverter	90980-10799
S19	Sliding Roof Control ECU	90980-10997	W 1	Wireless Door Lock Control Buzzer	90980-11142
S20	Seat Belt Warning Occupant Detection Sensor	90980-10906	W 2	Wireless Door Control Receiver	90980-11909
S21	Seat Heater (Driver's Seat Back)	90980-10907	Y 1	Yaw Rate Sensor	90080-98238

HOW TO READ THIS SECTION

* The system shown here is an EXAMPLE ONLY. It is different to the actual circuit shown in the wiring diagram section.

M OVERALL ELECTRICAL WIRING DIAGRAM



[A] : System Title

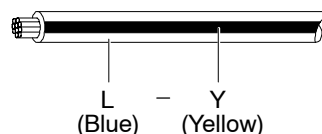
[B] : Indicates the wiring color.

Wire colors are indicated by an alphabetical code.

B = Black W = White BR = Brown
 L = Blue V = Violet SB = Sky Blue
 R = Red O = Orange LG = Light Green
 P = Pink Y = Yellow GR = Gray
 G = Green

The first letter indicates the basic wire color and the second letter indicates the color of the stripe.

Example: L – Y

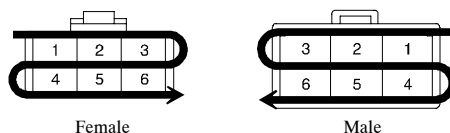


[C] : The position of the parts is the same as shown in the wiring diagram and wire routing.

[D] : Indicates the pin number of the connector. The numbering system is different for female and male connectors.

Example : Numbered in order from upper left to lower right

Numbered in order from upper right to lower left



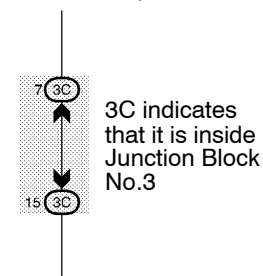
The numbering system for the overall wiring diagram is the same as above

[E] : Indicates a Relay Block. No shading is used and only the Relay Block No. is shown to distinguish it from the J/B.

Example : ① Indicates Relay Block No.1

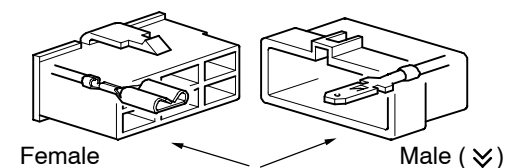
[F] : Junction Block (The number in the circle is the J/B No. and the connector code is shown beside it). Junction Blocks are shaded to clearly separate them from other parts.

Example:



[G] : Indicates related system.

[H] : Indicates the wiring harness and wiring harness connector. The wiring harness with male terminal is shown with arrows (↘). Outside numerals are pin numbers.



[I] : () is used to indicate different wiring and connector, etc. when the vehicle model, engine type, or specification is different.

[J] : Indicates a shielded cable.



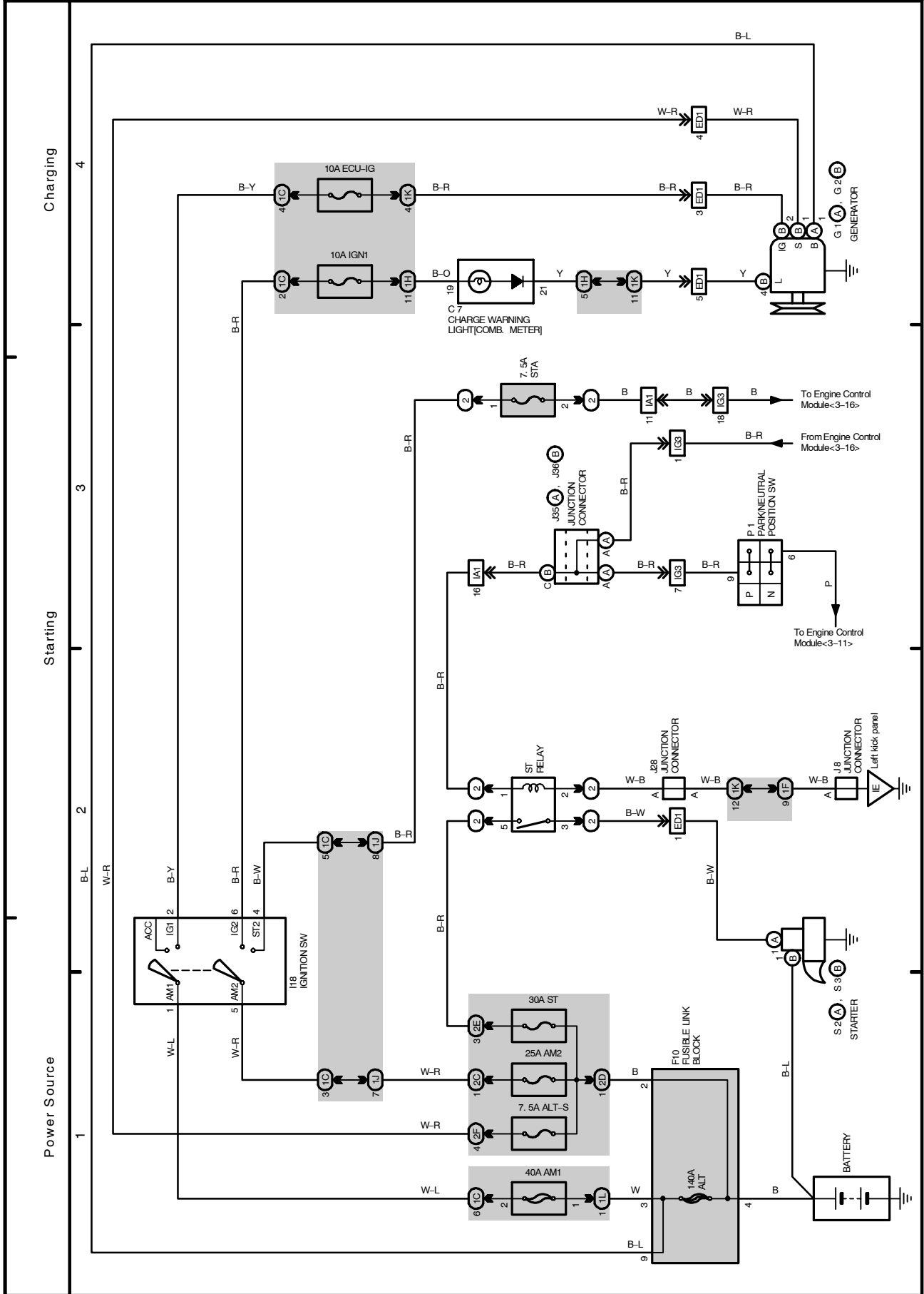
[K] : Indicates and located on ground point.

[L] : The same code occurring on the next page indicates that the wire harness is continuous.

300 SYSTEM INDEX

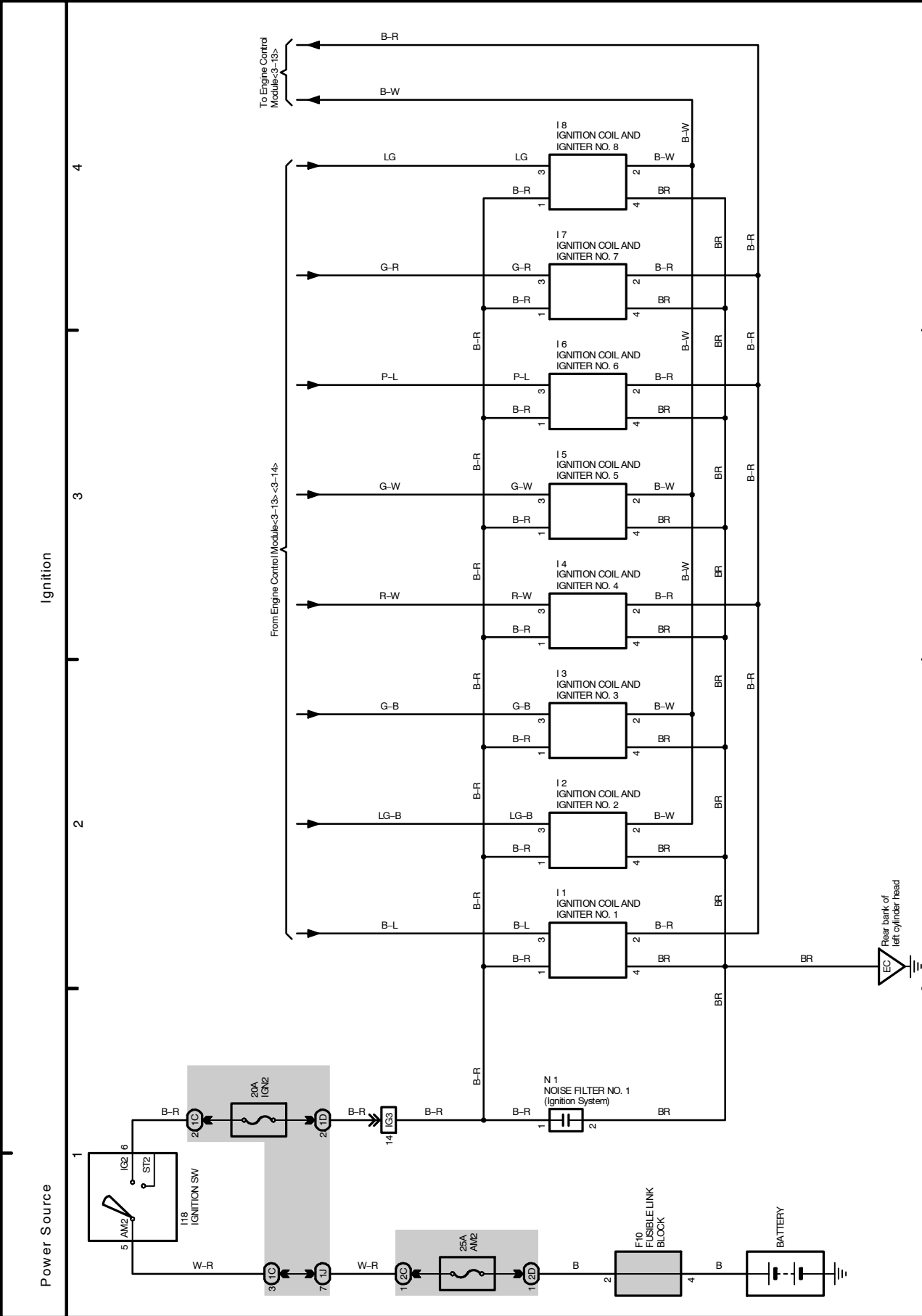
SYSTEMS	LOCATION	SYSTEMS	LOCATION
Accessory Meter	10-4	* Light Auto Turn Off	
Air Conditioning (Dual A/C)	25-2	* Power Window	
Air Conditioning (Single A/C)	26-2	* Rear Wiper and Washer	
Auto Antenna	23-2	* Theft Deterrent	
Automatic Glare-Resistant EC Mirror	10-2	* Wireless Door Lock Control	
Back-Up Light	8-2	Power Outlet (115V)	20-2
Charging	1-4	Power Outlet (12V)	19-2
Cigarette Lighter	19-2	Power Seat	11-2
Combination Meter	24-2	Power Source	1~26-1
Cruise Control	3-16	Radio and Player (Rear Seat Entertainment System Type)	21-2
Electronically Controlled Transmission and A/T Indicator	12-2	Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)	22-2
Engine Control	3-2	Radio and Player (6 Speaker)	23-3
Engine Immobiliser System	3-17	Rear Window Defogger	18-2
Front Wiper and Washer	9-2	Remote Control Mirror	16-2
Garage Door Opener	10-4	Seat Belt Warning	19-3
Ignition	2-2	Seat Heater	18-3
Illumination	7-2	SRS	13-2
Mirror Heater	18-2	Starting	1-2
Moon Roof	10-2	Stop Light	8-3
Multiplex Communication System	4-2	Taillight	6-2
* Automatic Light Control		Trailer Towing	17-3
* Door Lock Control		Turn Signal and Hazard Warning Light	5-2
* Fog Light		VSC	14-2
* Headlight		4WD	15-2
* Horn			
* Interior Light			
* Key Reminder			

1 SEQUOIA ELECTRICAL WIRING DIAGRAM

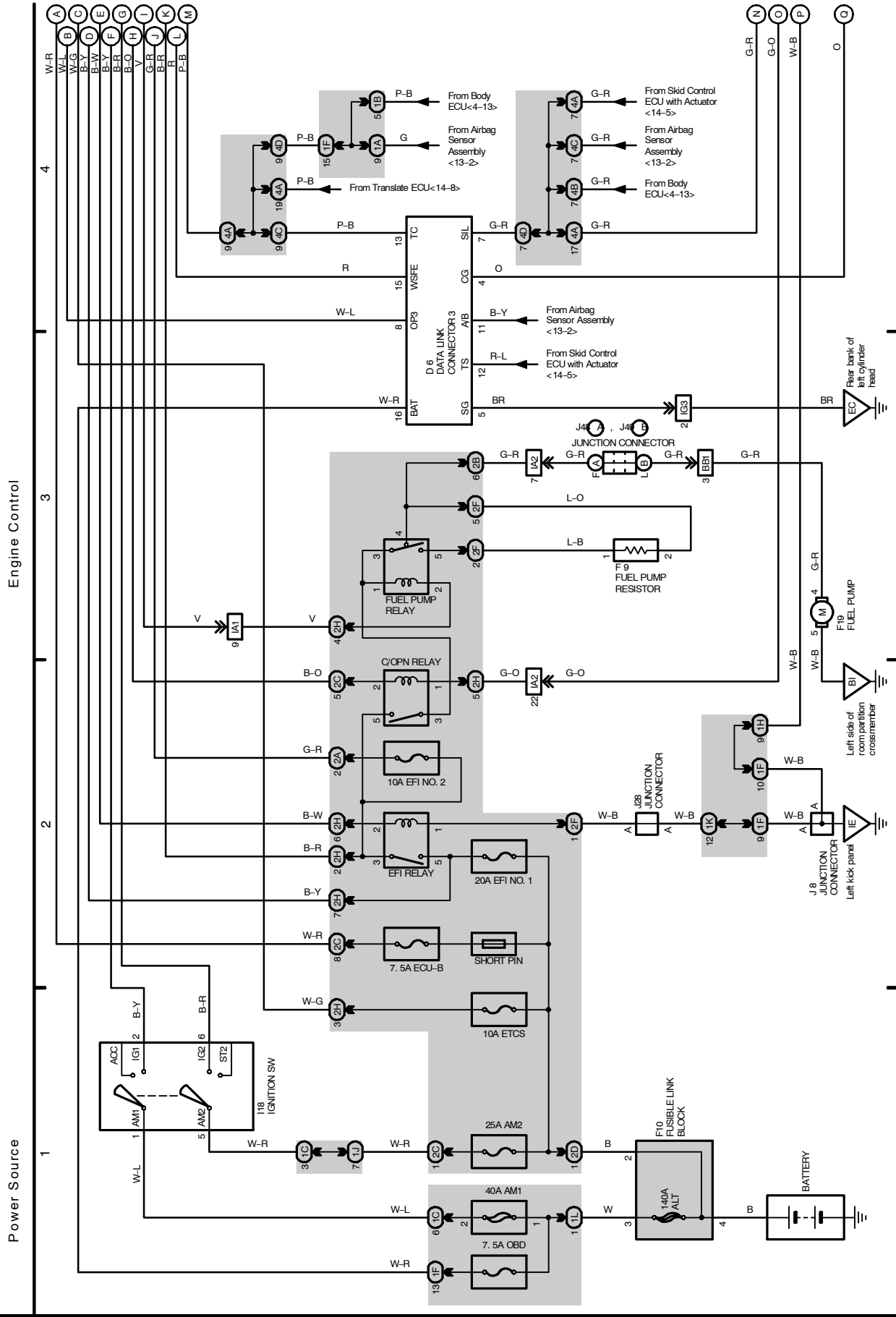


M OVERALL ELECTRICAL WIRING DIAGRAM

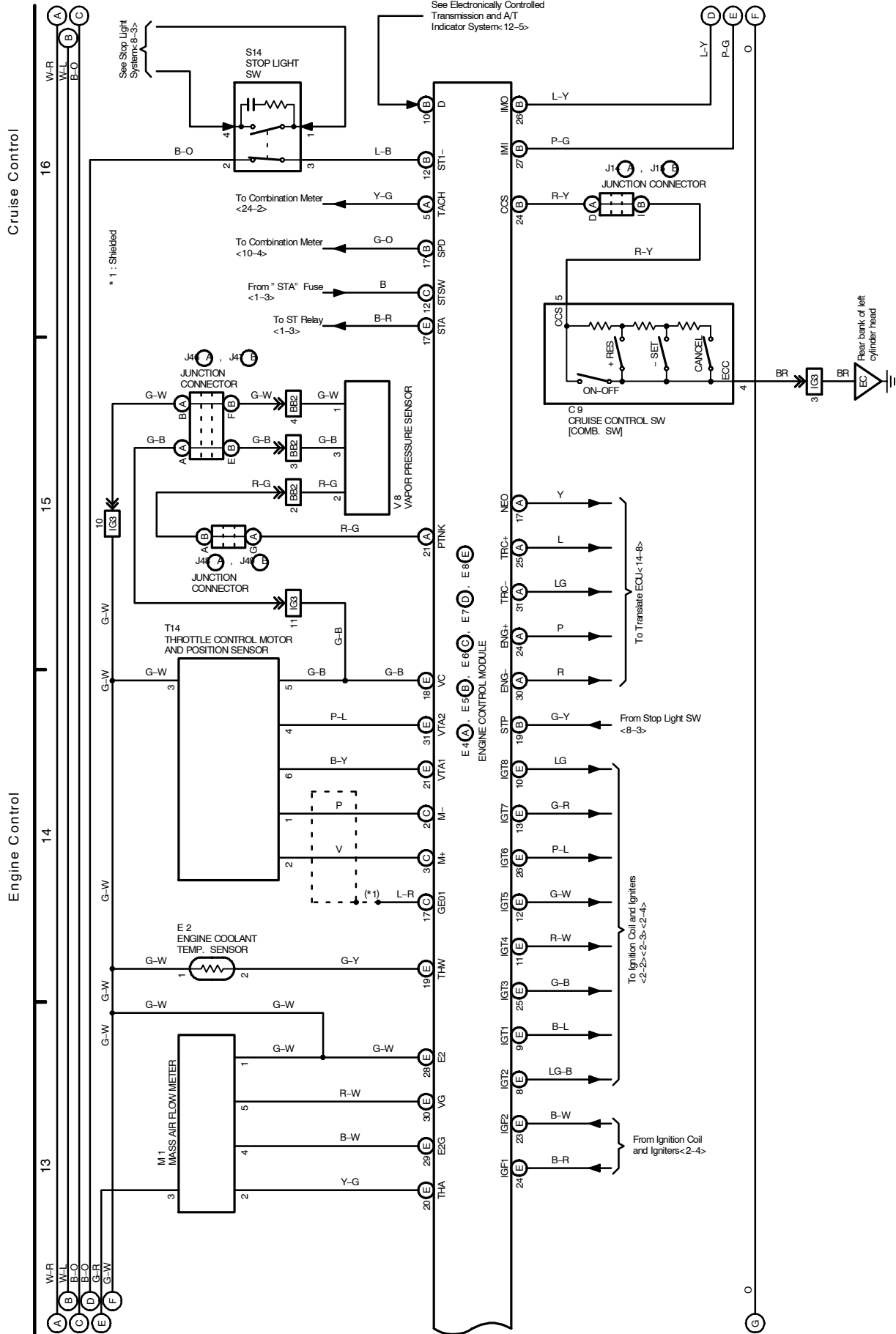
2 SEQUOIA



M OVERALL ELECTRICAL WIRING DIAGRAM

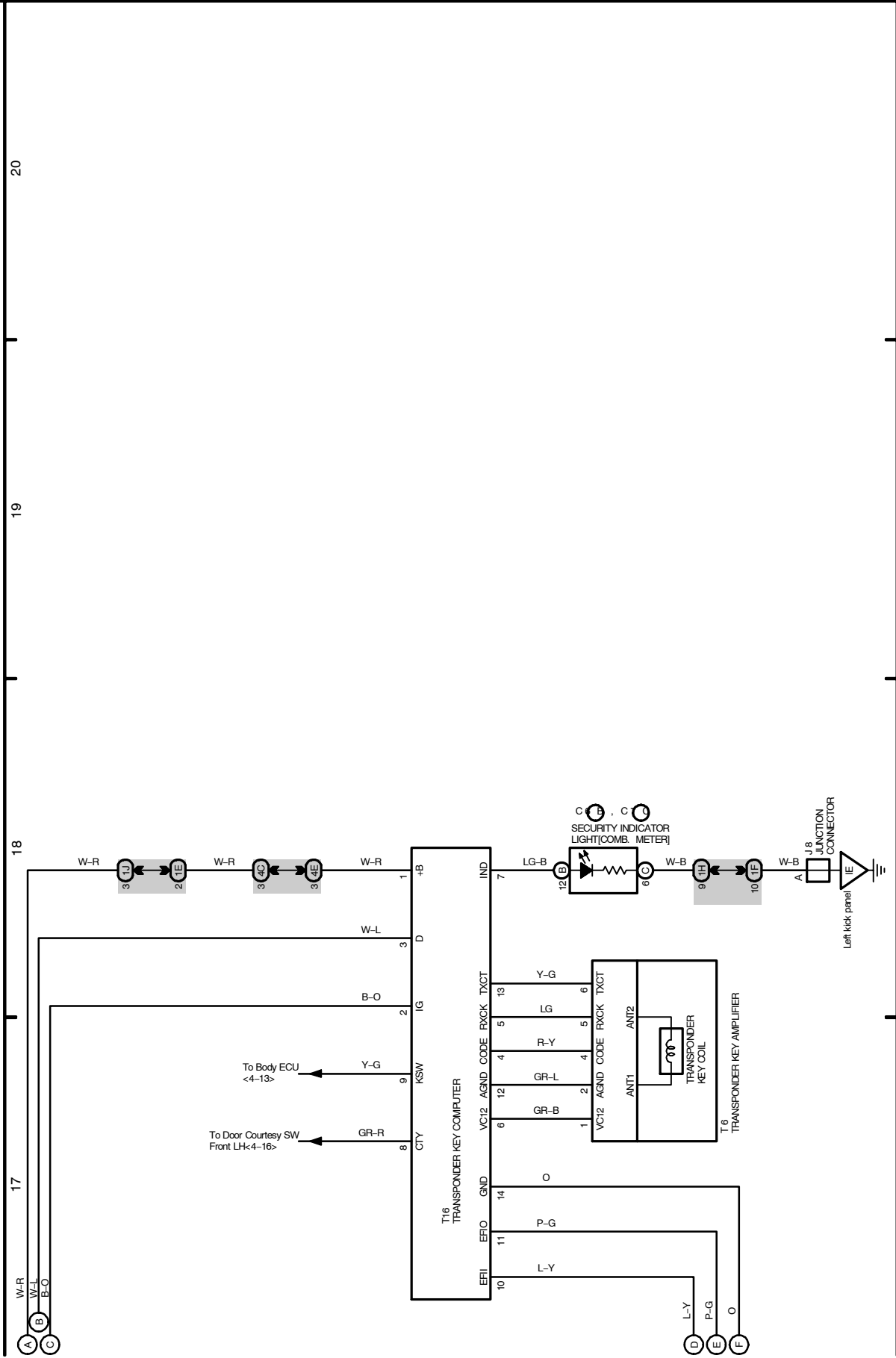


M OVERALL ELECTRICAL WIRING DIAGRAM



M OVERALL ELECTRICAL WIRING DIAGRAM

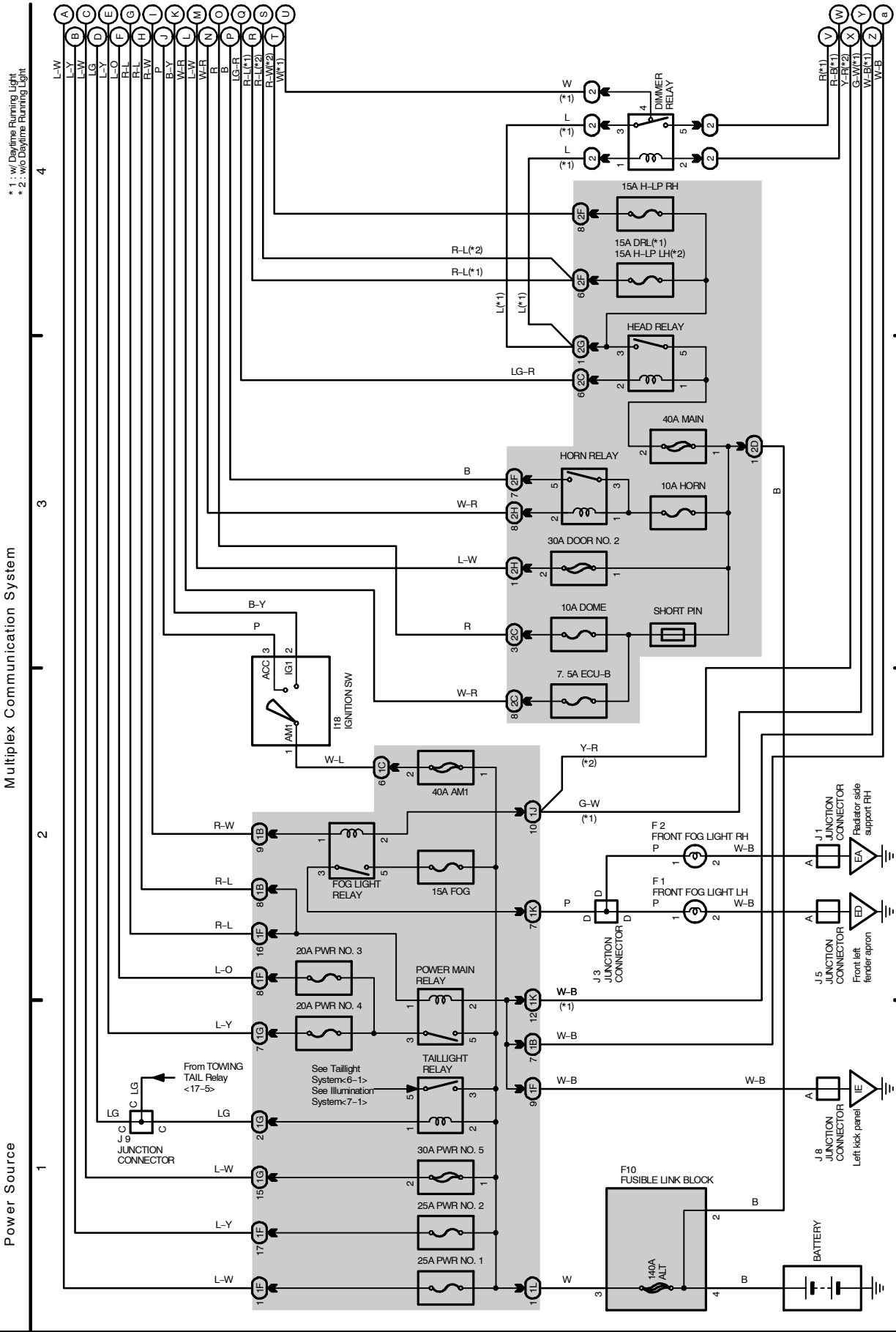
Engine Immobiliser System



M OVERALL ELECTRICAL WIRING DIAGRAM

Multiplex Communication System

Power Source



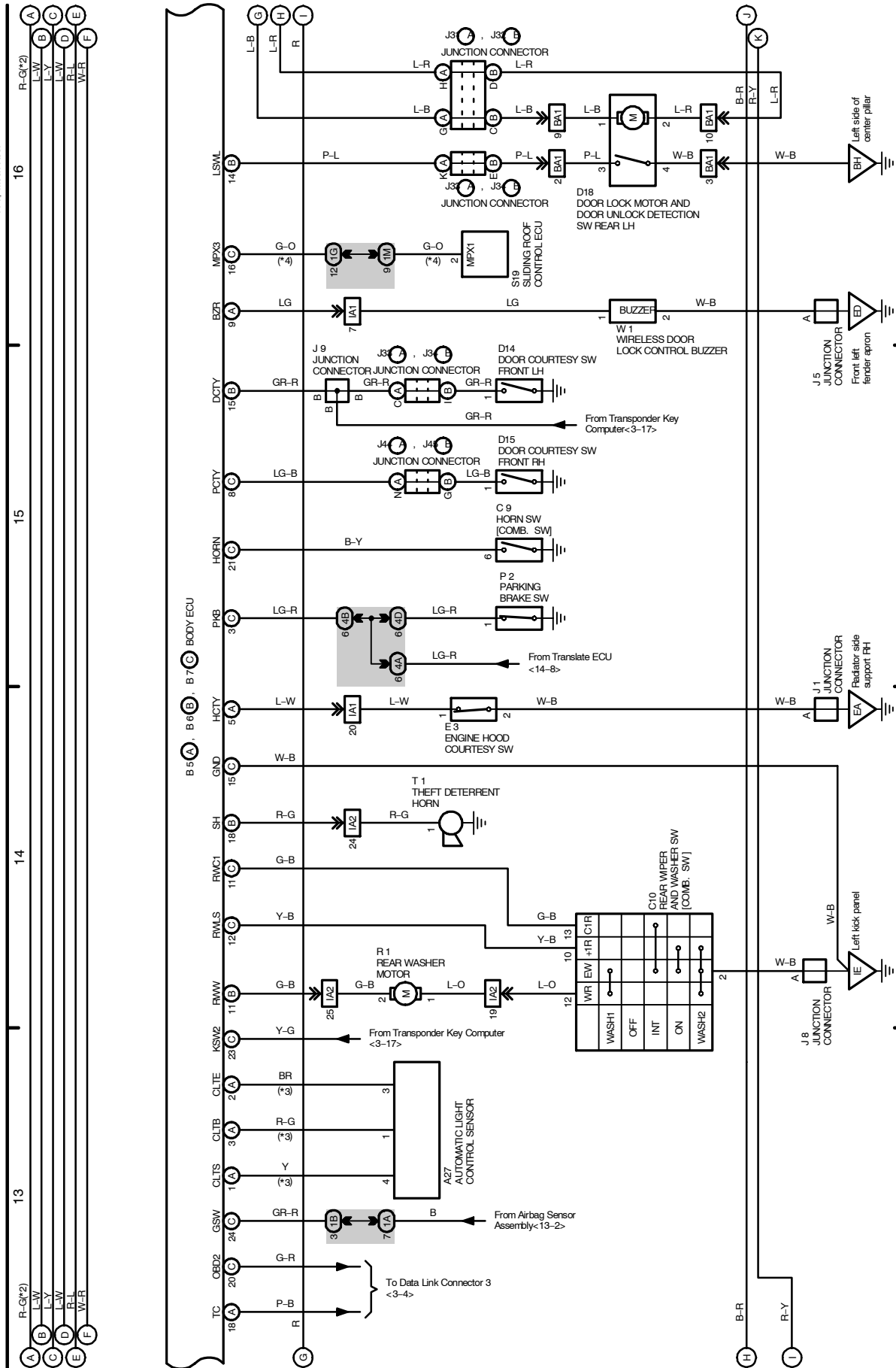


M OVERALL ELECTRICAL WIRING DIAGRAM



* 2: w/o Daytime Running Light
 * 3: w/ Automatic Light Control
 * 4: w/ Moon Roof

Multiplex Communication System



M OVERALL ELECTRICAL WIRING DIAGRAM

* 2 : w/o Daytime Running Light



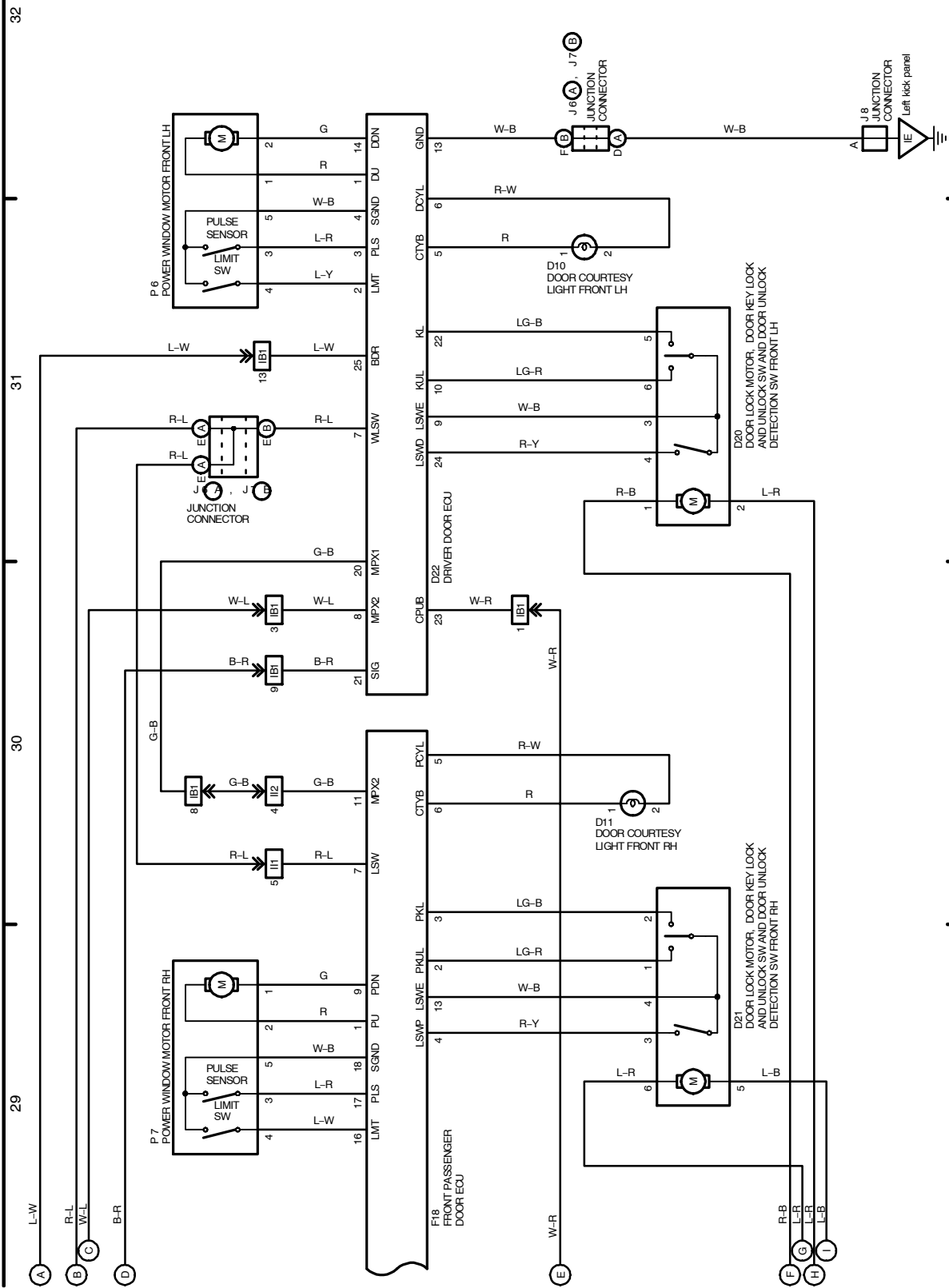


M OVERALL ELECTRICAL WIRING DIAGRAM



4 SEQUOIA (Cont' d)

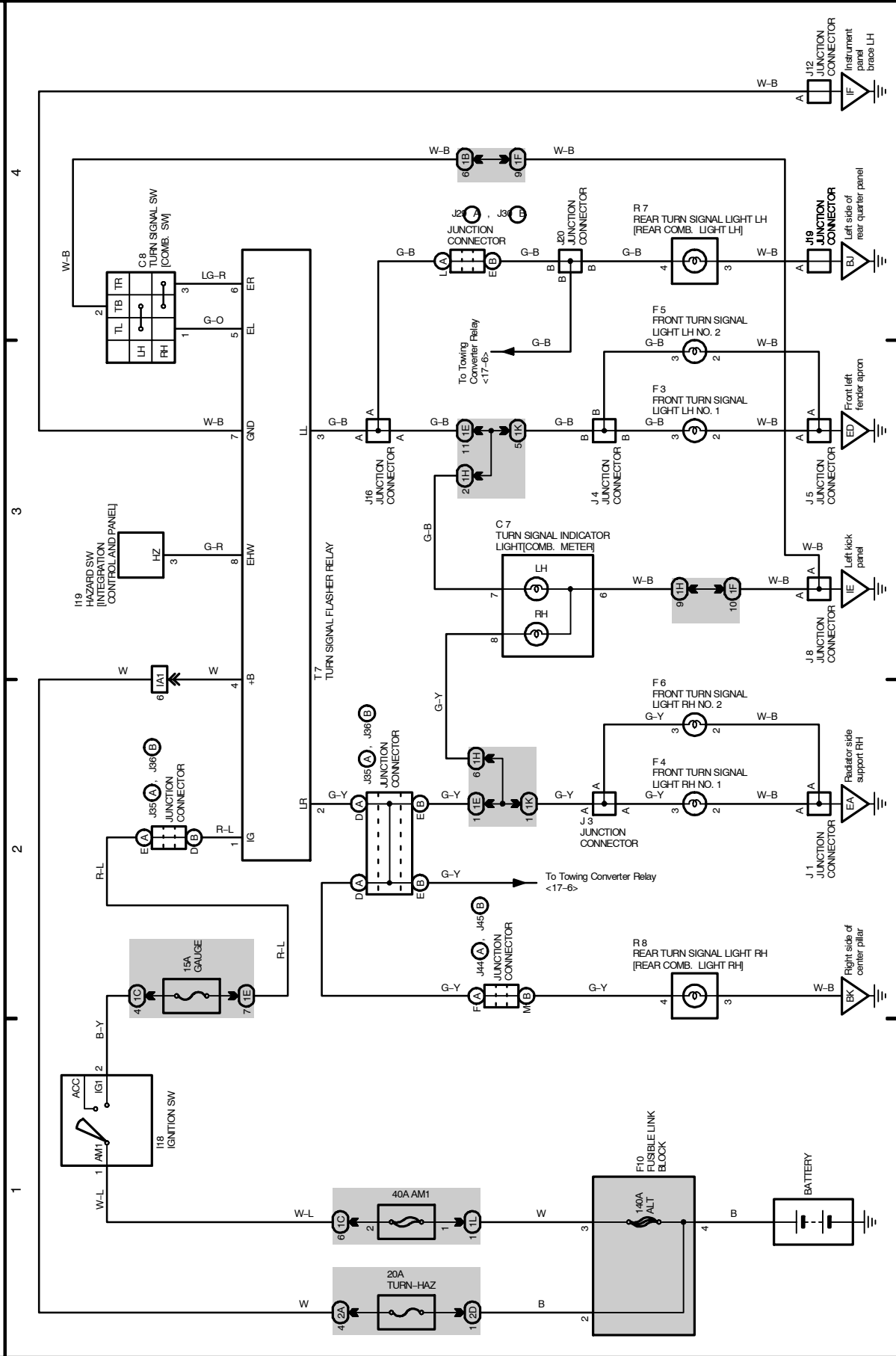
Multiplex Communication System



M OVERALL ELECTRICAL WIRING DIAGRAM

Power Source

Turn Signal and Hazard Warning Light



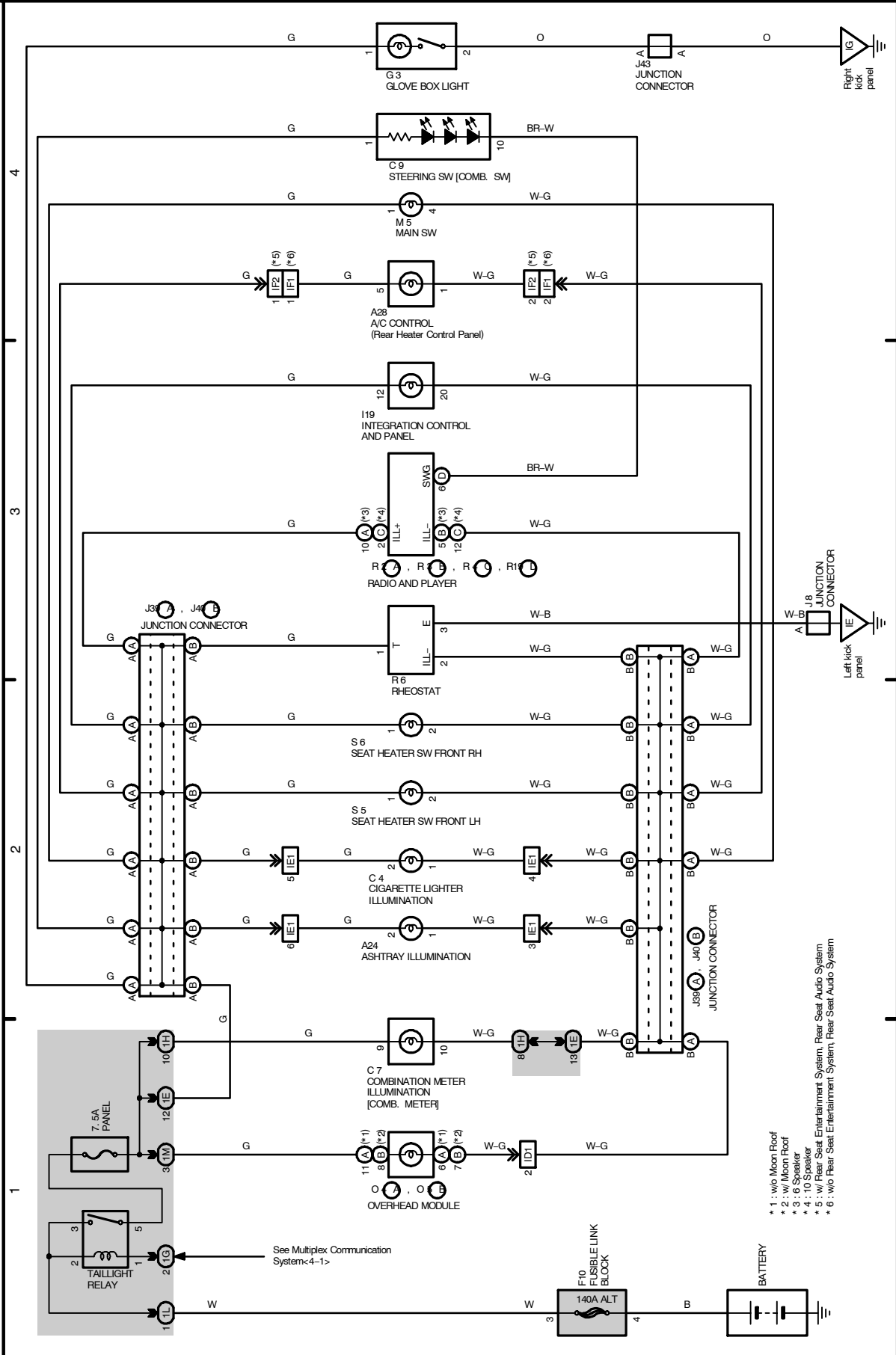
6 SEQUOIA

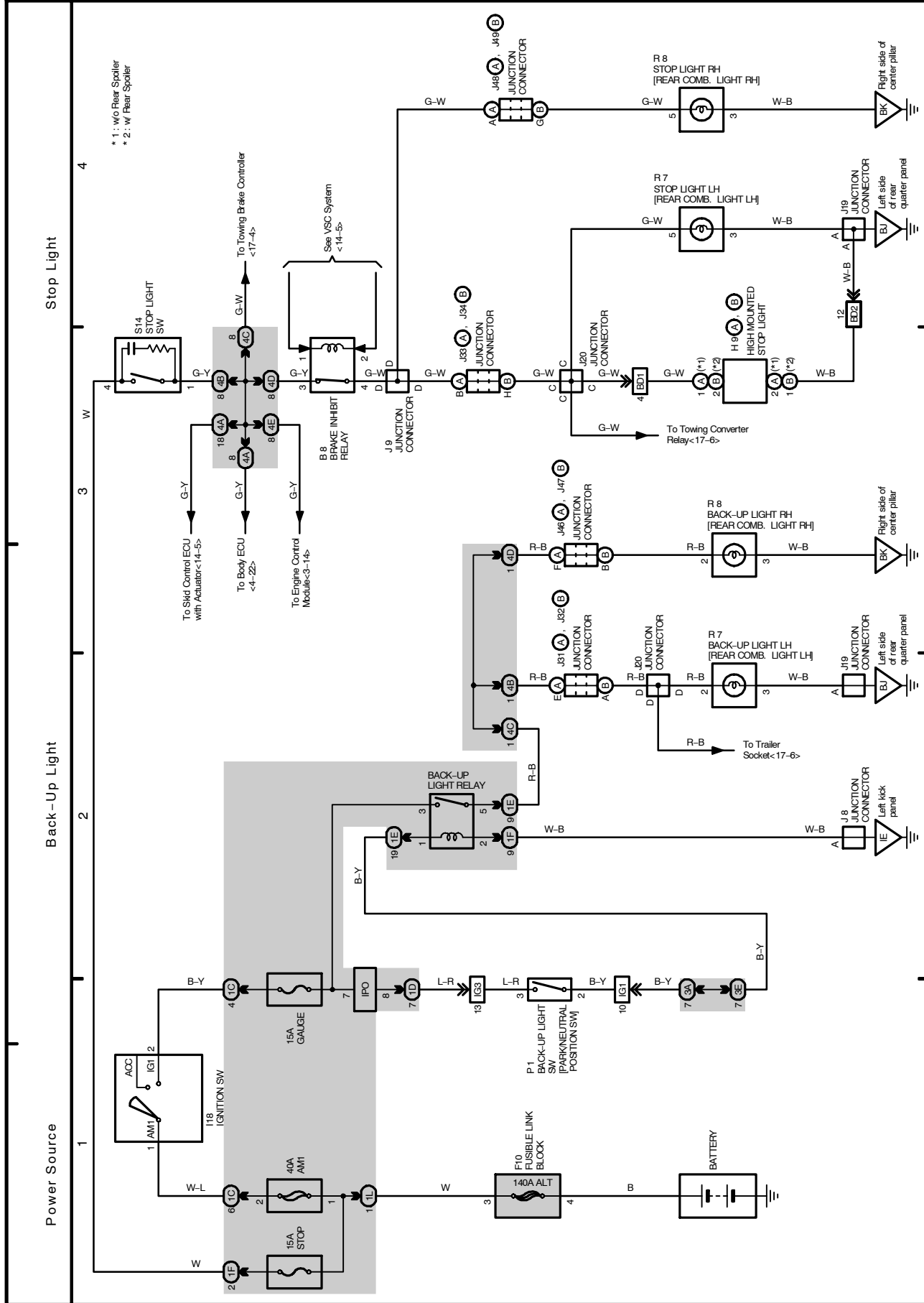


M OVERALL ELECTRICAL WIRING DIAGRAM

Power Source

Illumination





M OVERALL ELECTRICAL WIRING DIAGRAM

Power Source

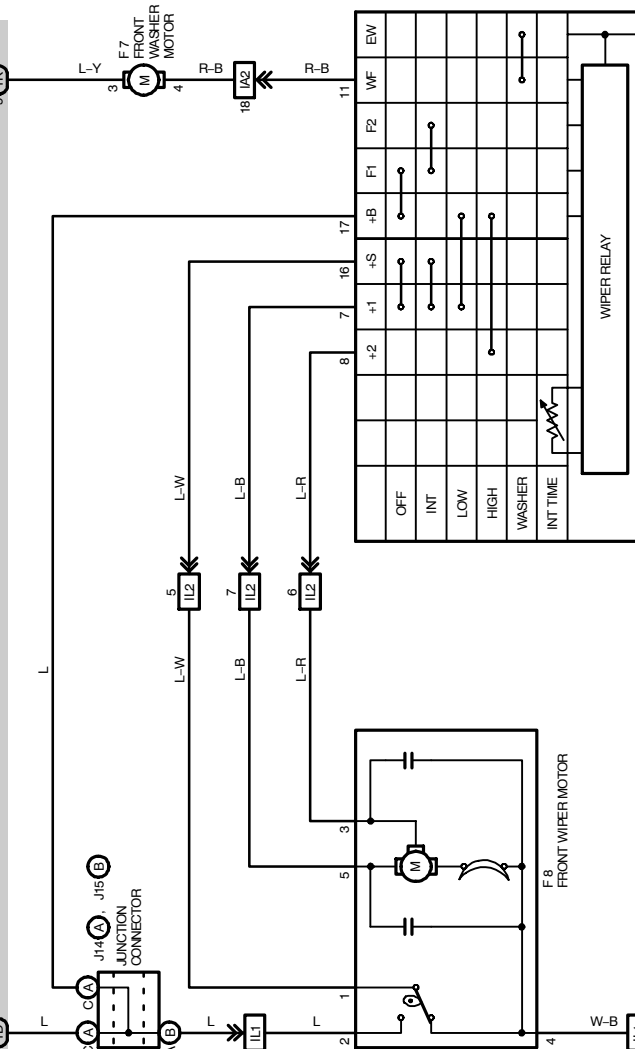
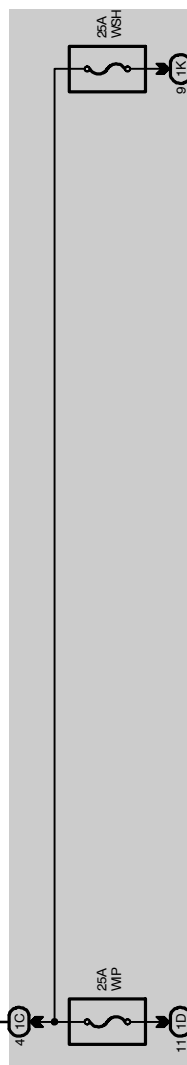
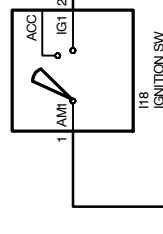
Front Wiper and Washer

4

3

2

4



G10
FRONT WIPER AND WASHER
[COMB. SW]

BATTERY

F8
FRONT WIPER MOTOR

F7
FRONT WASHER MOTOR

WIPER RELAY

J18
JUNCTION CONNECTOR

I18
IGNITION SW

F10
FUSIBLE LINK BLOCK

40A
AM1

25A
WIP

25A
WSH

W-L

W-B

W-B

W-B

W-B

W-B

W-B

W-B

W-B

W-B

W-B

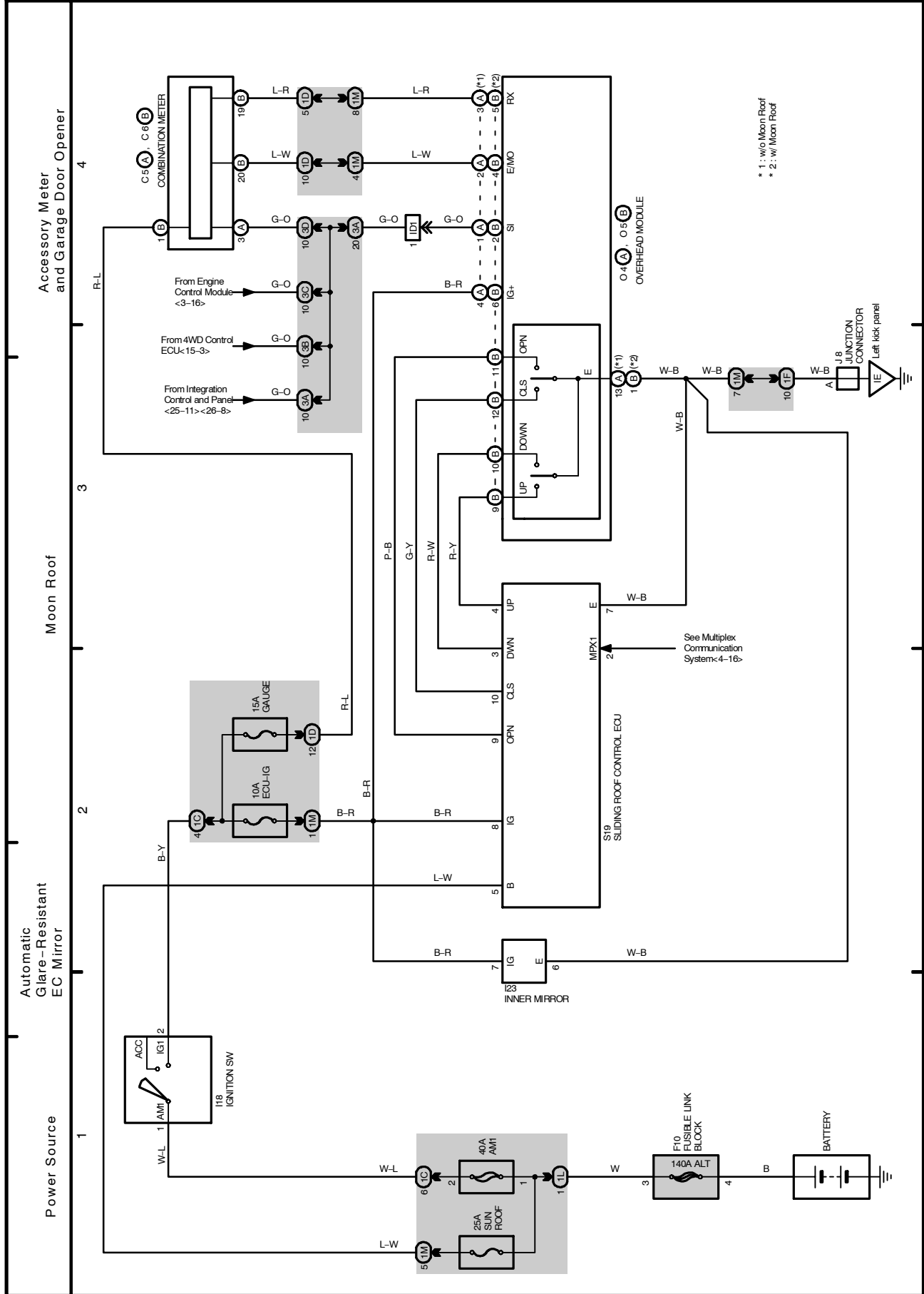
W-B

W-B

W-B

W-B

W-B



M OVERALL ELECTRICAL WIRING DIAGRAM

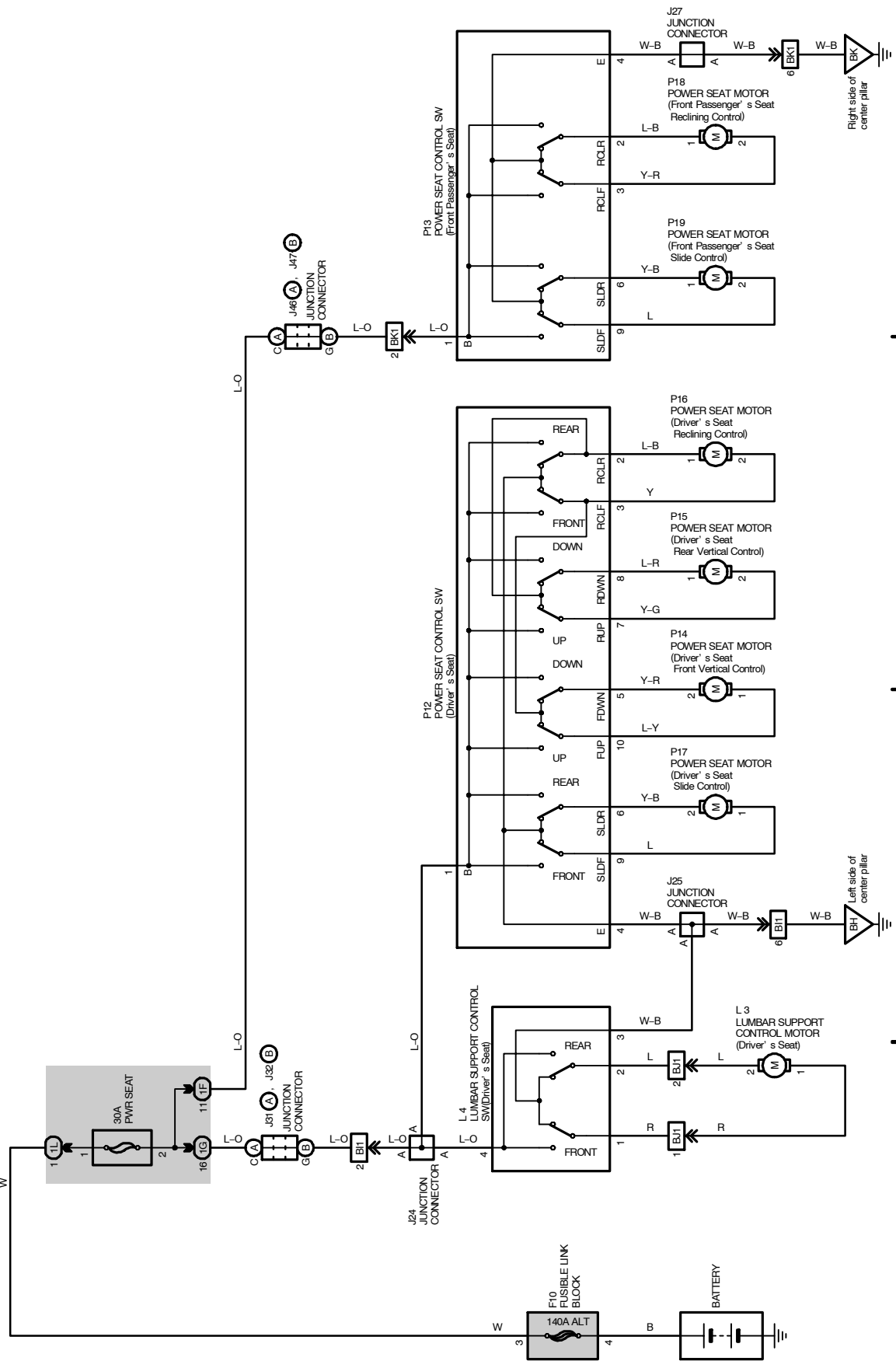
Power Source

Power Seat

4

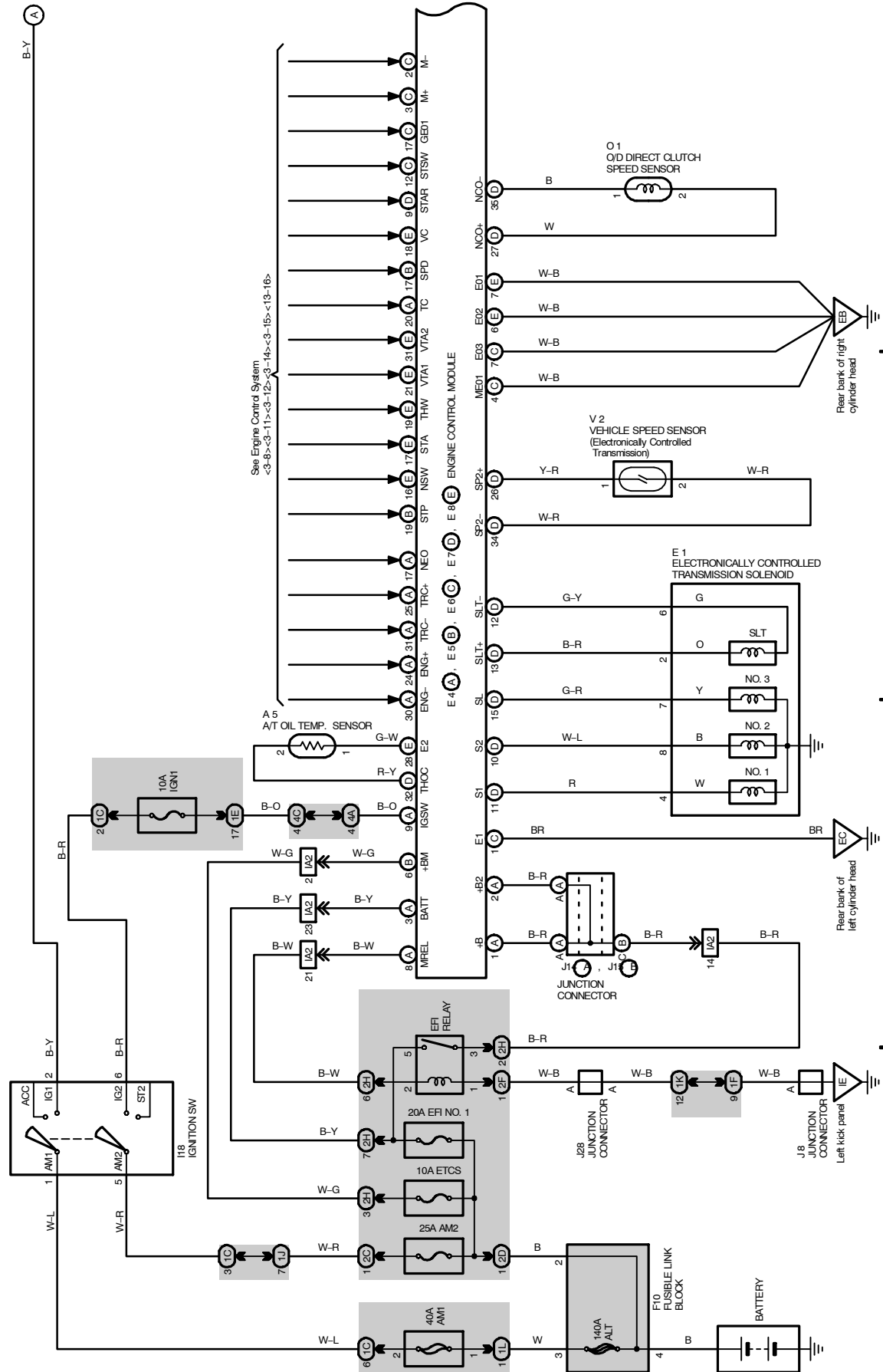
3

2



M OVERALL ELECTRICAL WIRING DIAGRAM

4





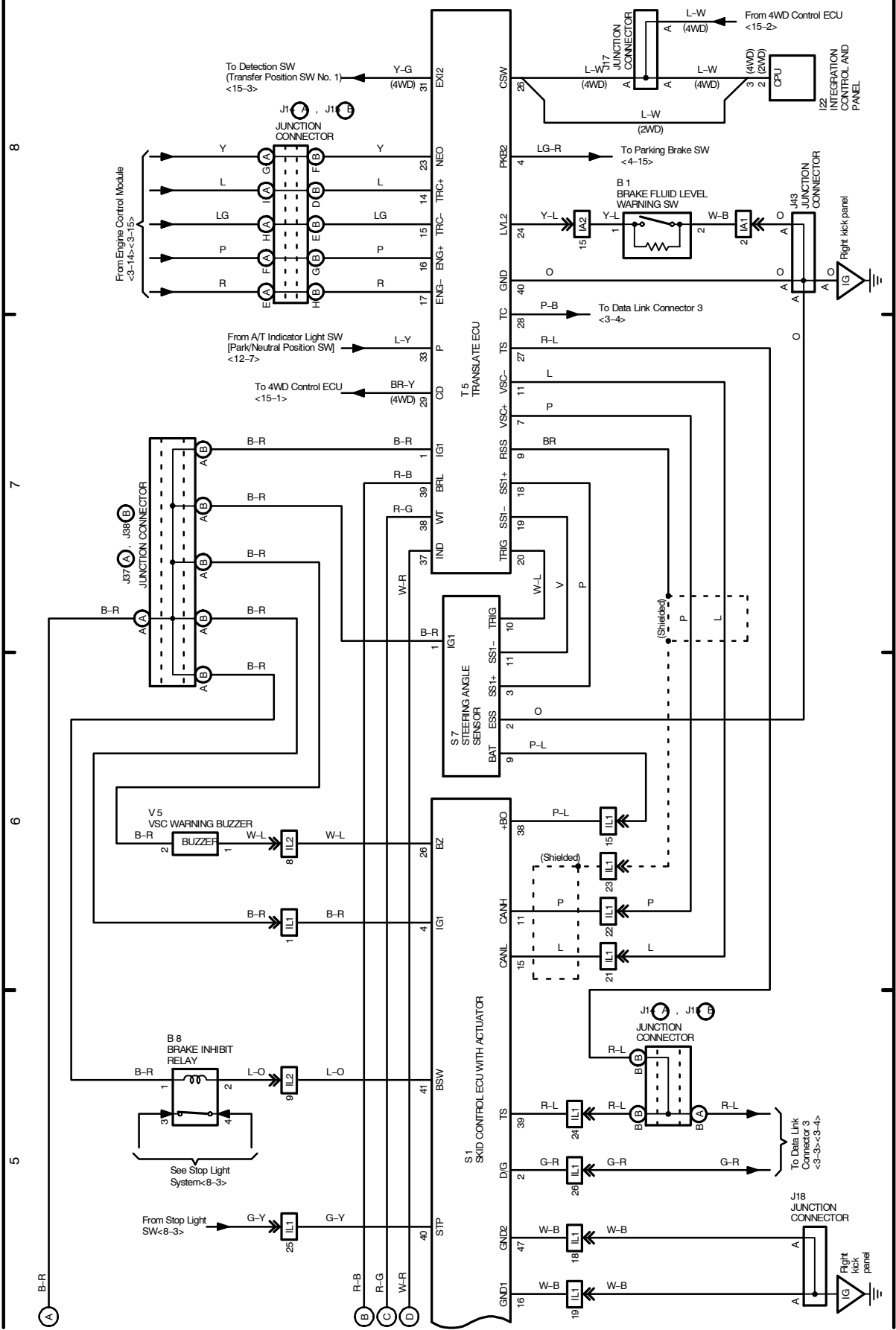
M OVERALL ELECTRICAL WIRING DIAGRAM



M OVERALL ELECTRICAL WIRING DIAGRAM

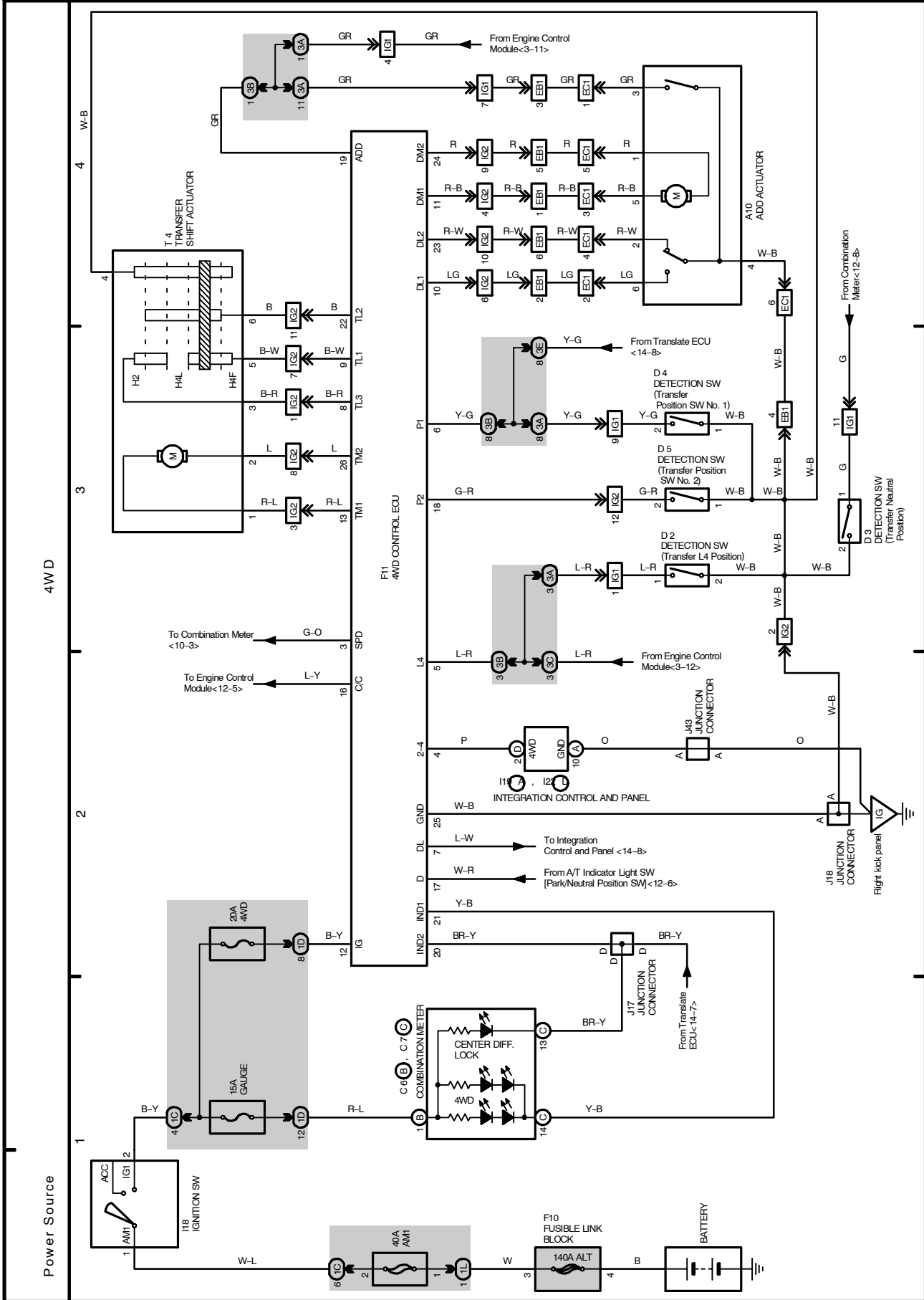


VSC



M OVERALL ELECTRICAL WIRING DIAGRAM

15 SEQUOIA



Power Source

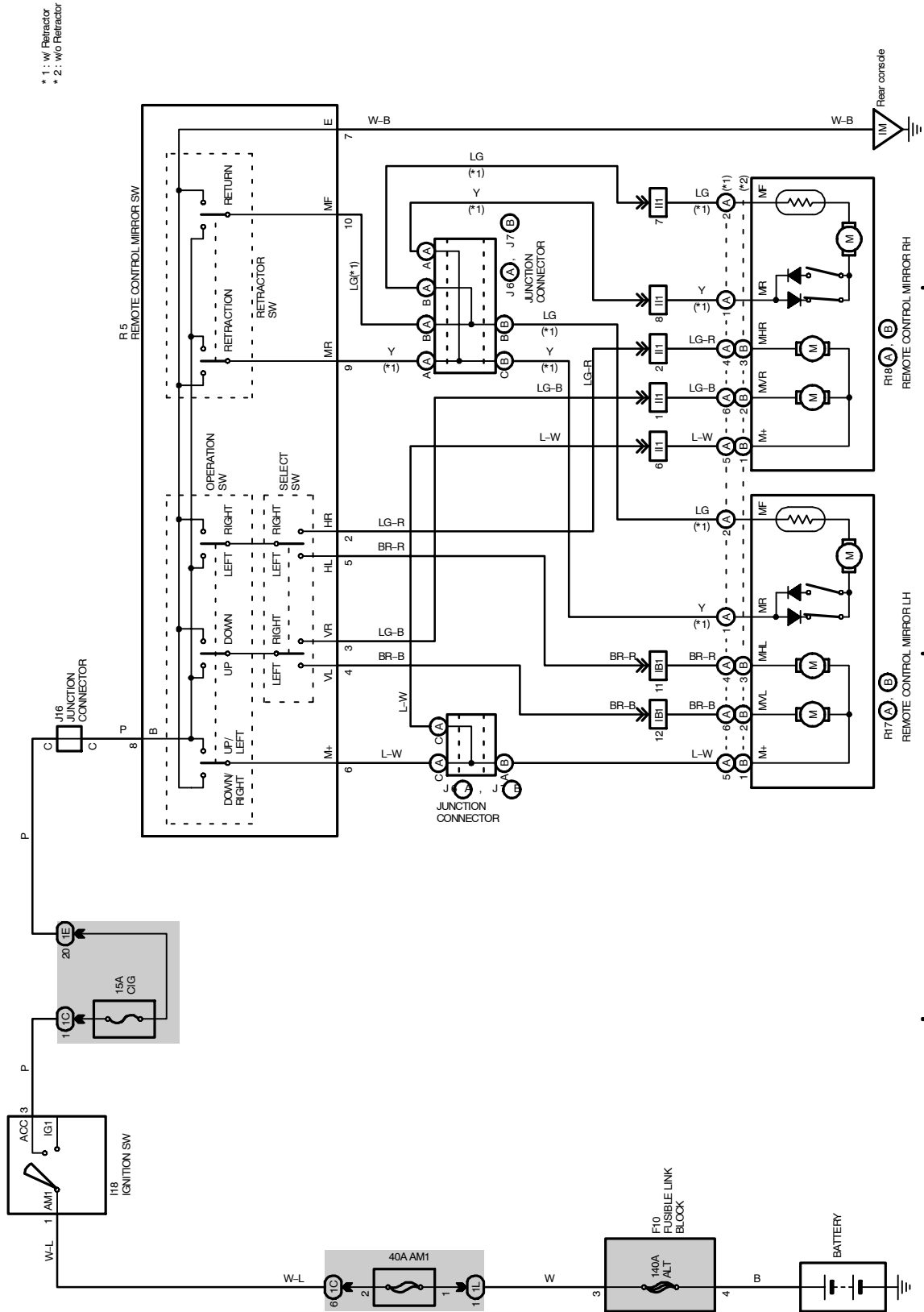
Remote Control Mirror

4

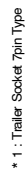
3

2

1



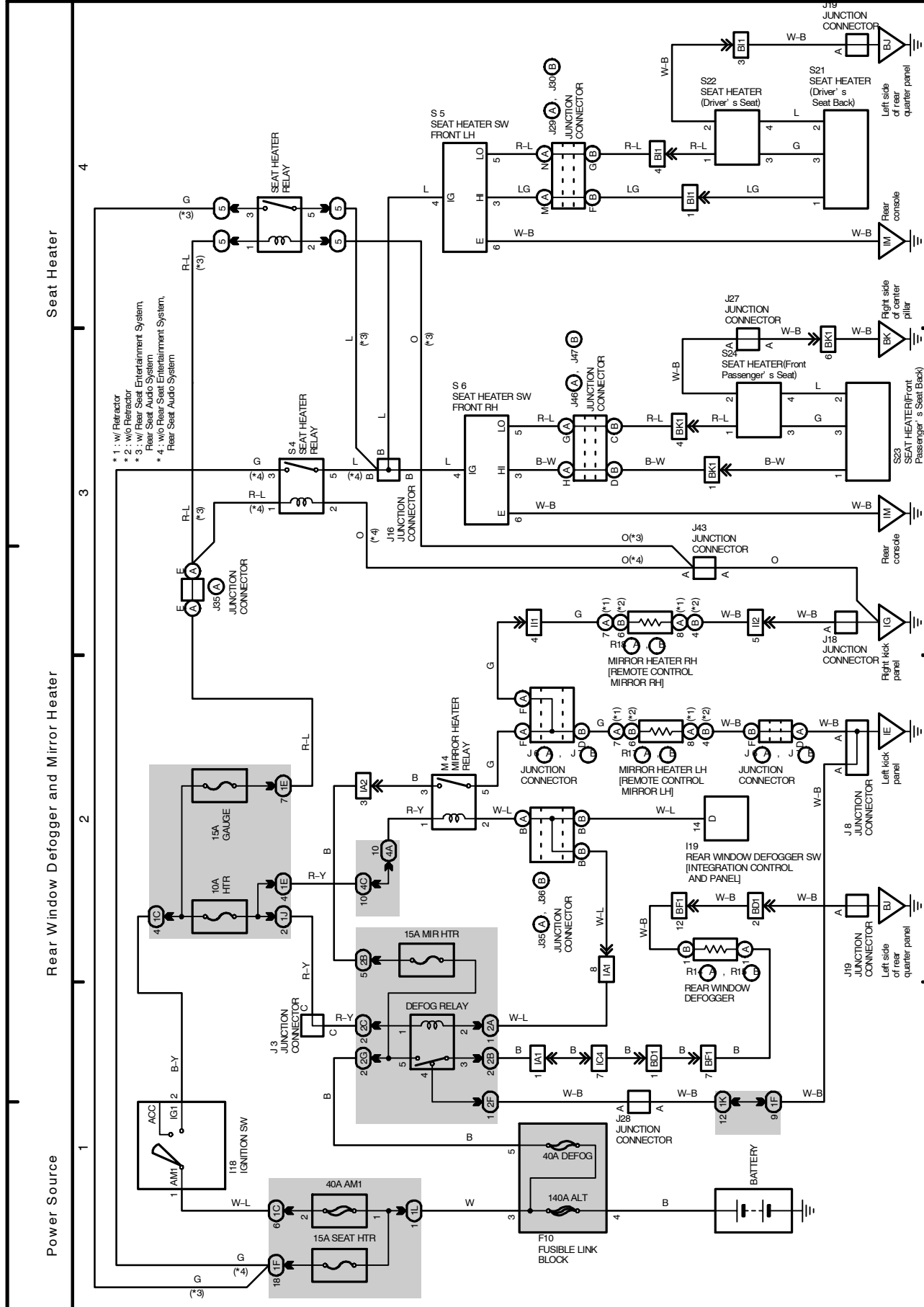
M OVERALL ELECTRICAL WIRING DIAGRAM



Trailer Towing



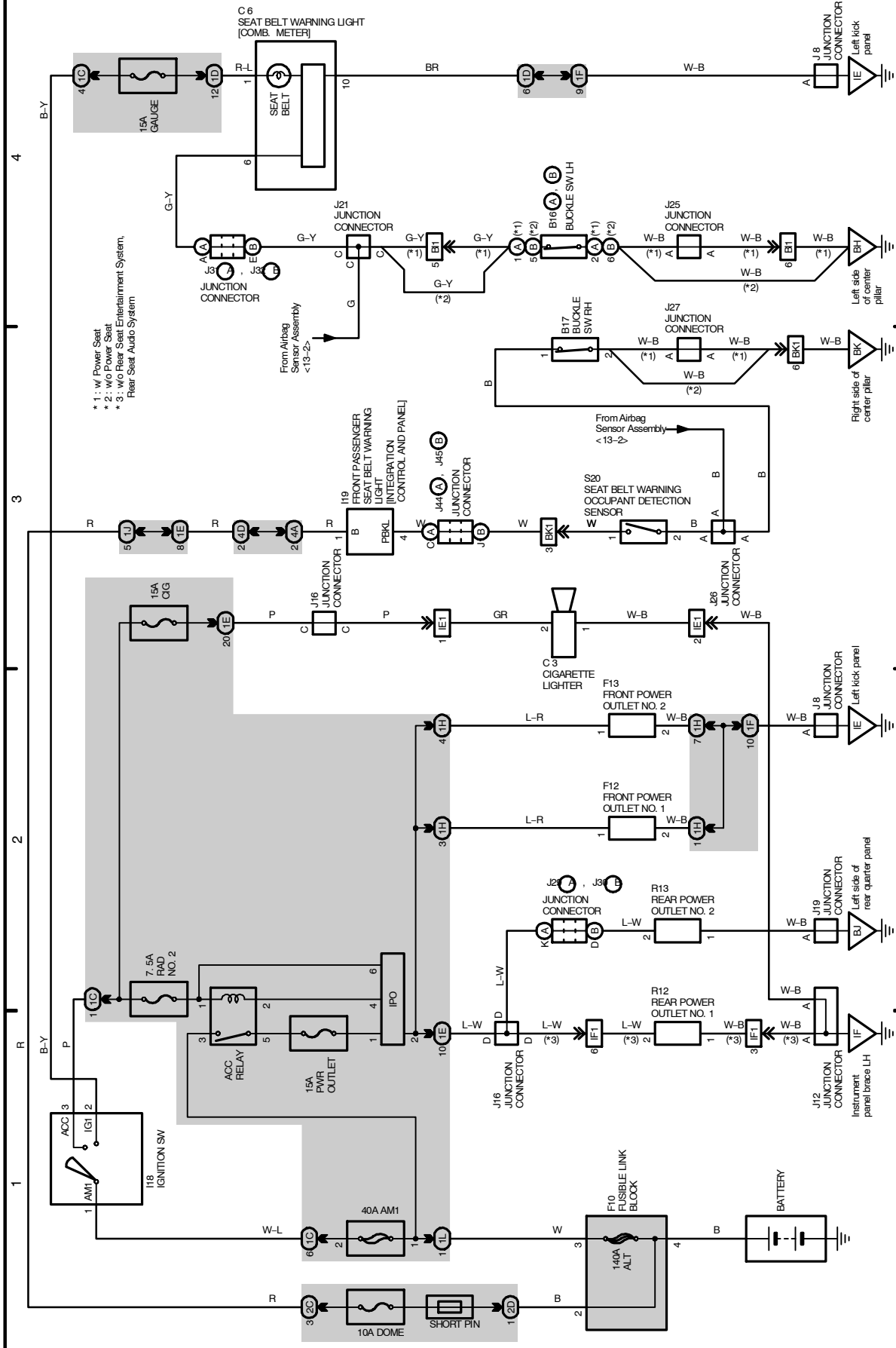
M OVERALL ELECTRICAL WIRING DIAGRAM



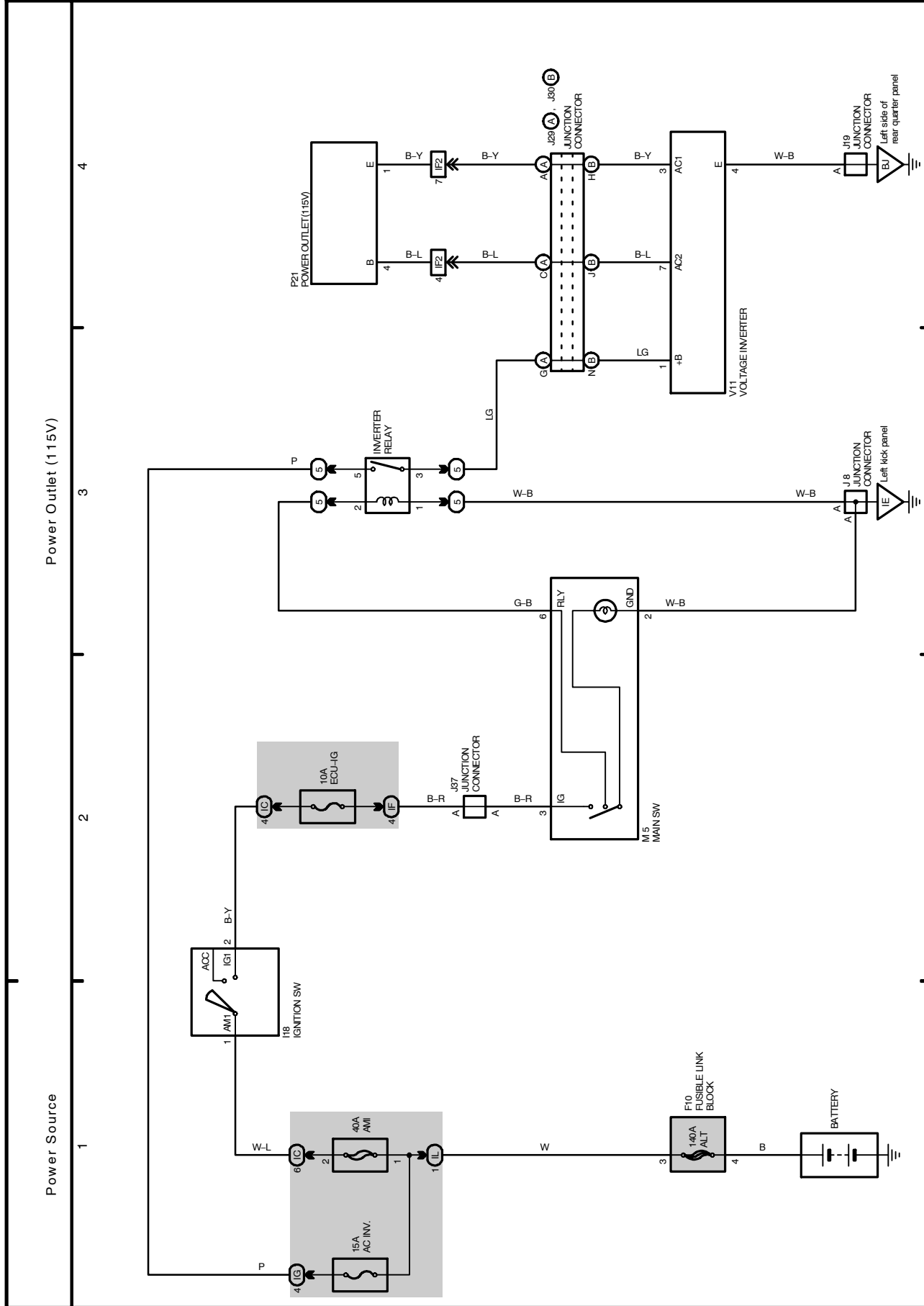
Power Source

Cigarette Lighter and Power Outlet (12V)

Seat Belt Warning

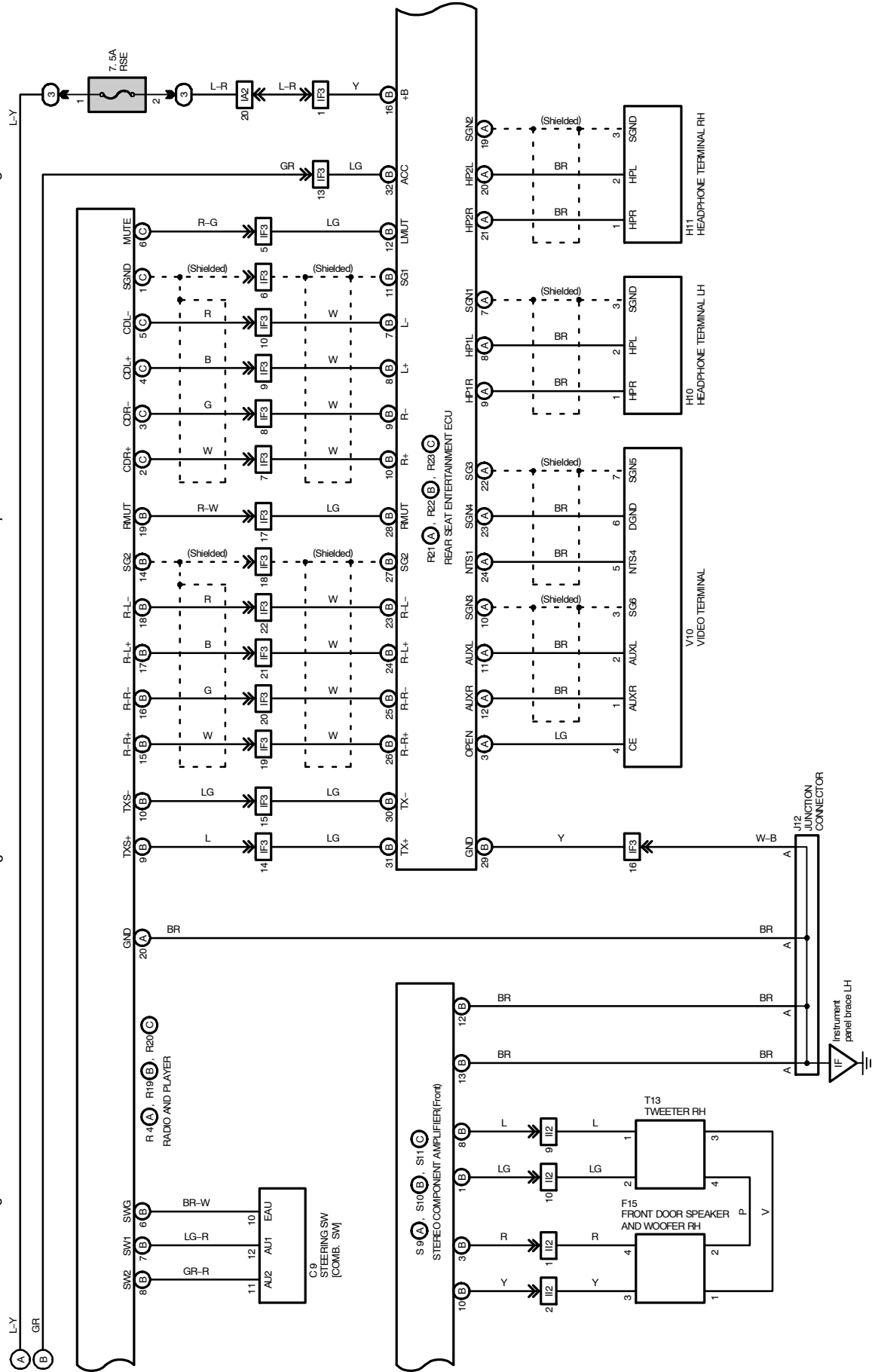


M OVERALL ELECTRICAL WIRING DIAGRAM



M OVERALL ELECTRICAL WIRING DIAGRAM

A vertical number line with tick marks at 5, 6, 7, and 8.

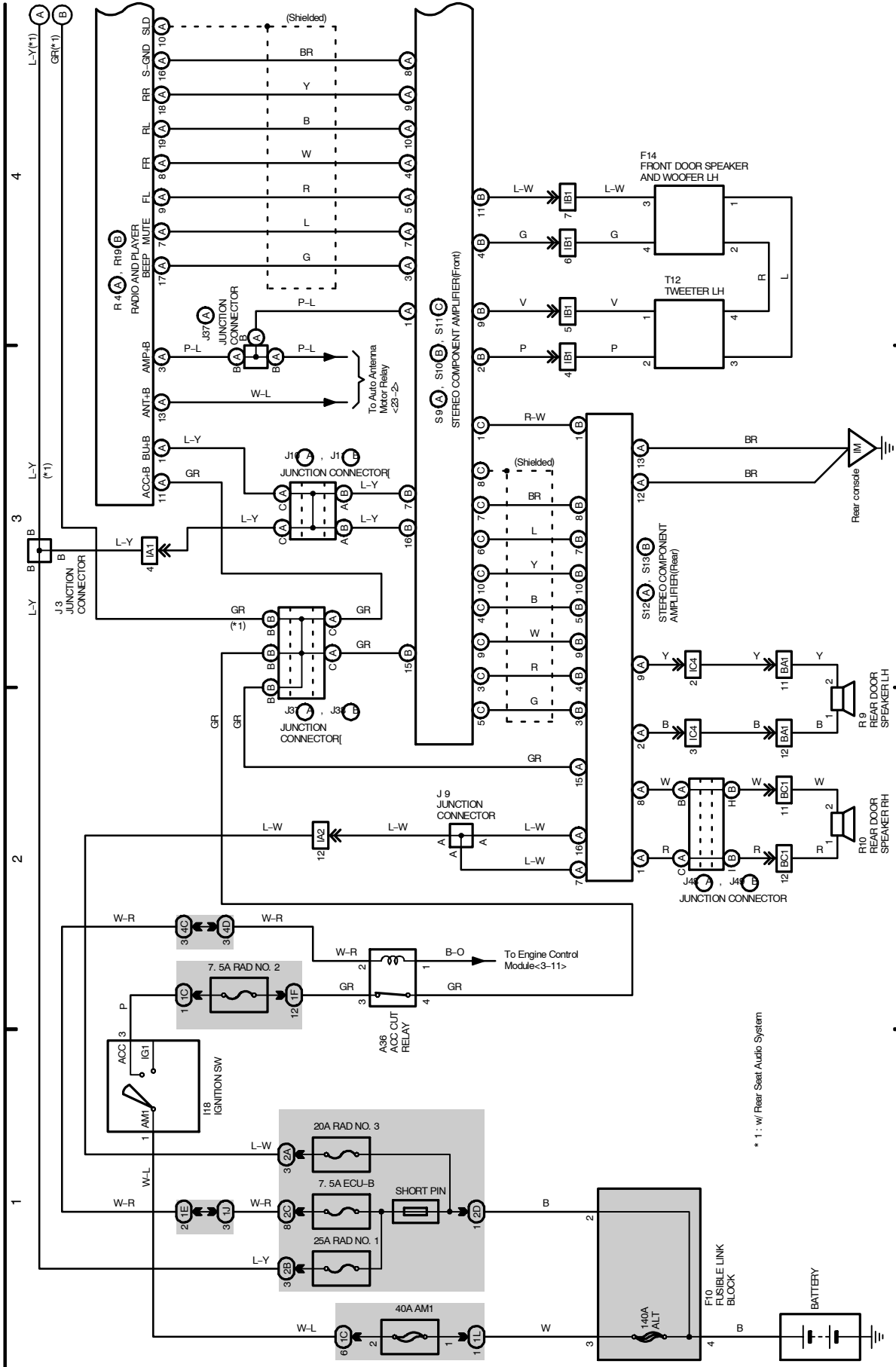


M OVERALL ELECTRICAL WIRING DIAGRAM



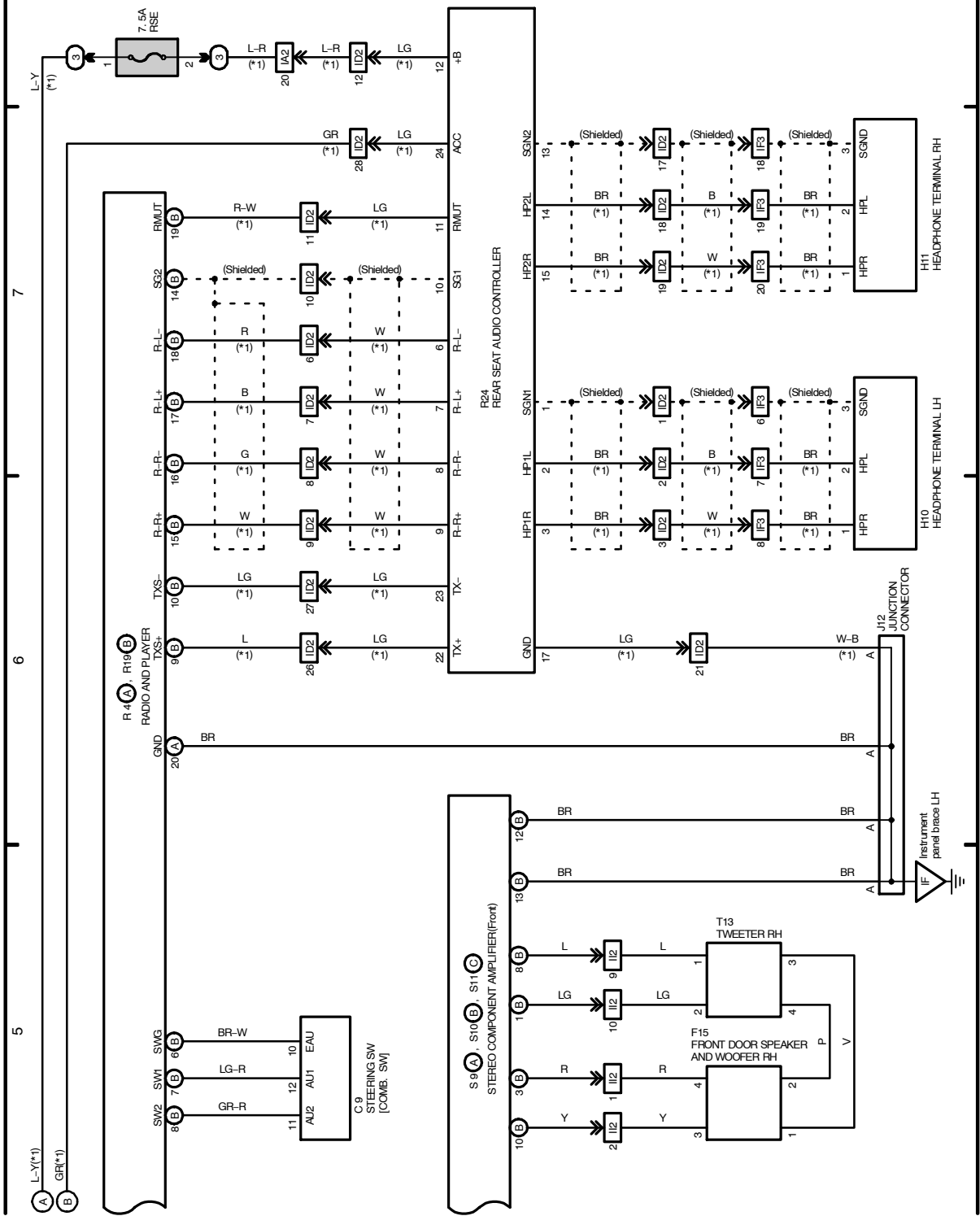
M OVERALL ELECTRICAL WIRING DIAGRAM

Power Source

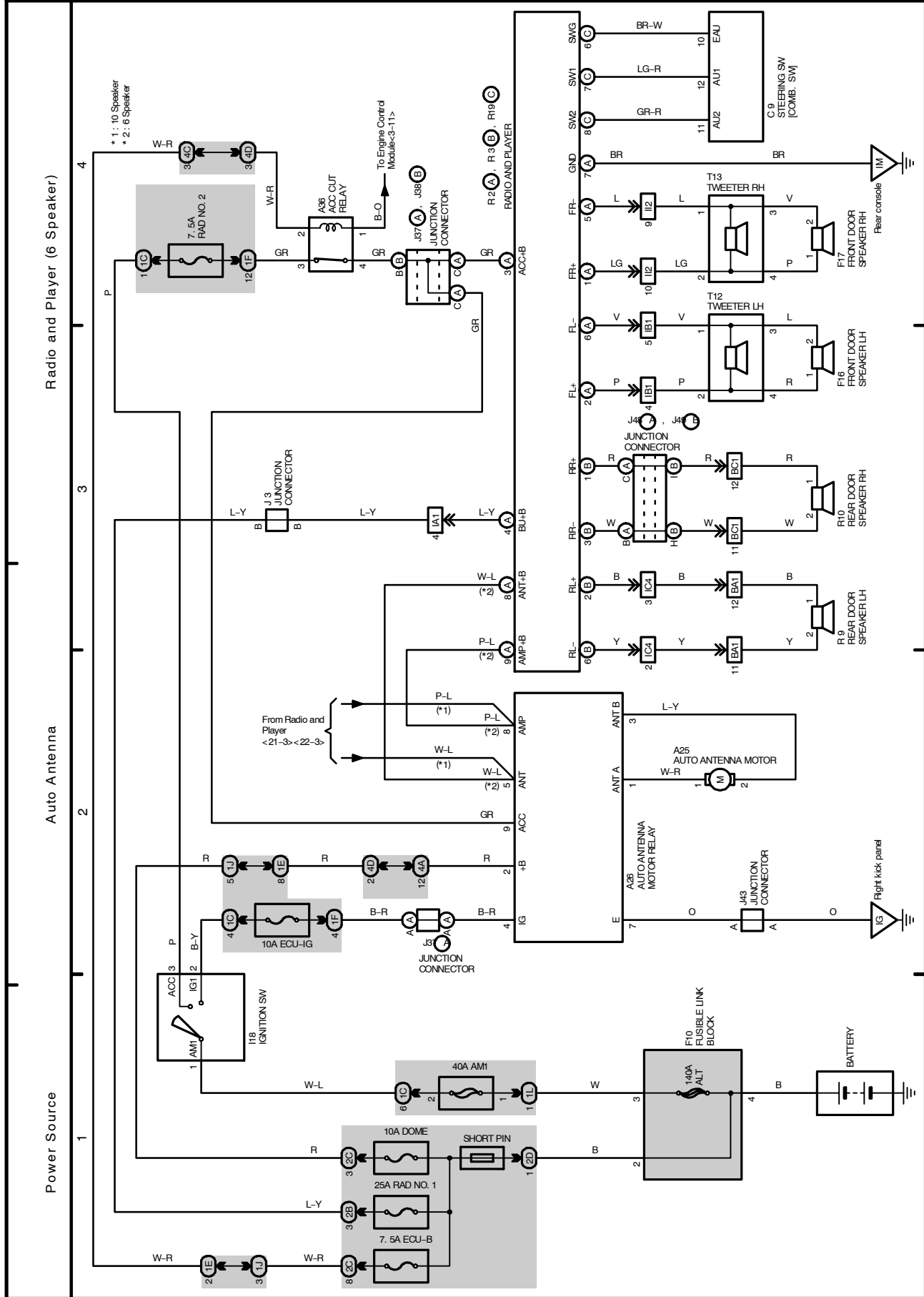


Radio and Player (10 Speaker Except Rear Seat Entertainment System Type)

* 1 : w/ Rear Seat Audio System



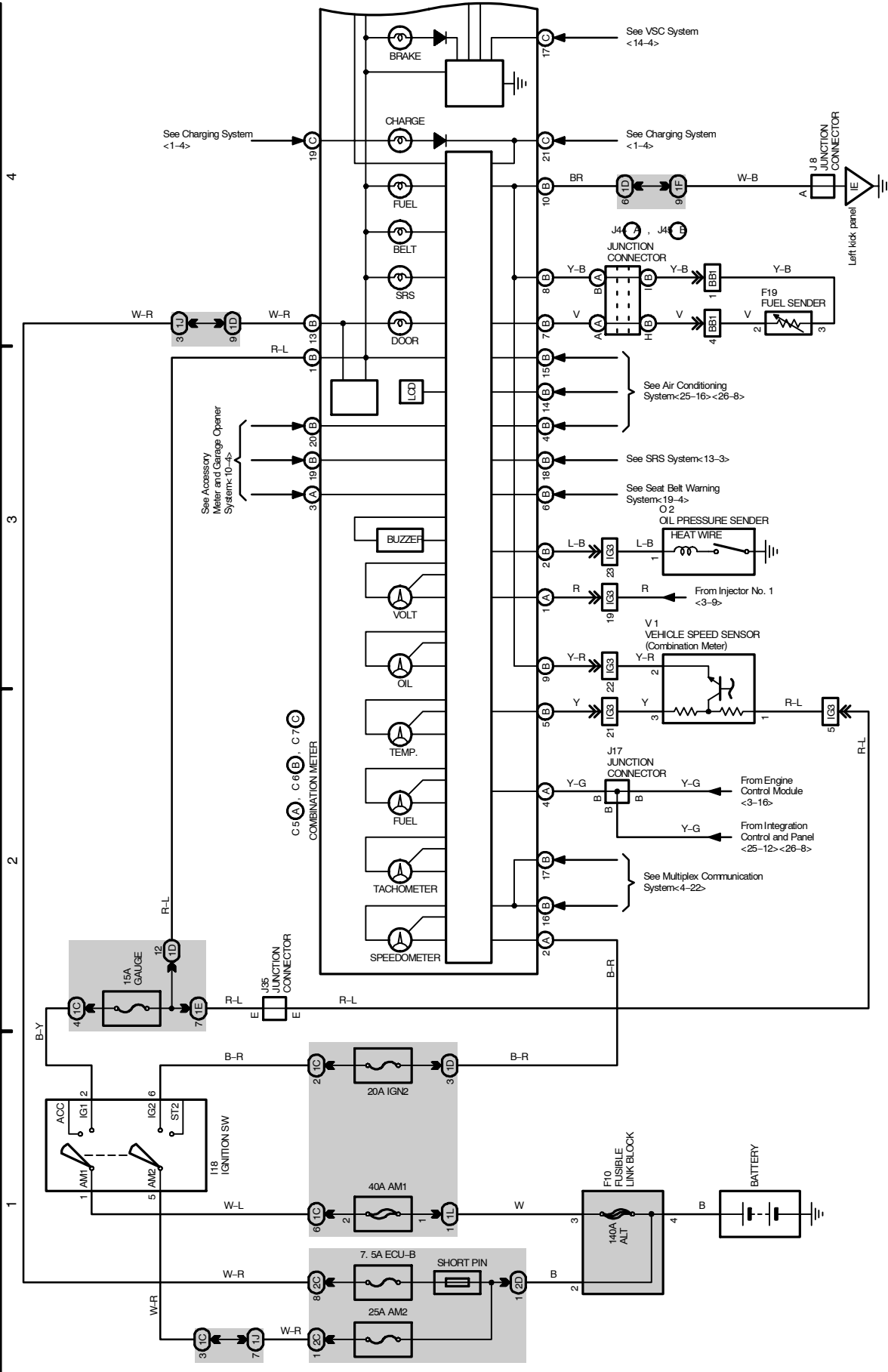
M OVERALL ELECTRICAL WIRING DIAGRAM



M OVERALL ELECTRICAL WIRING DIAGRAM

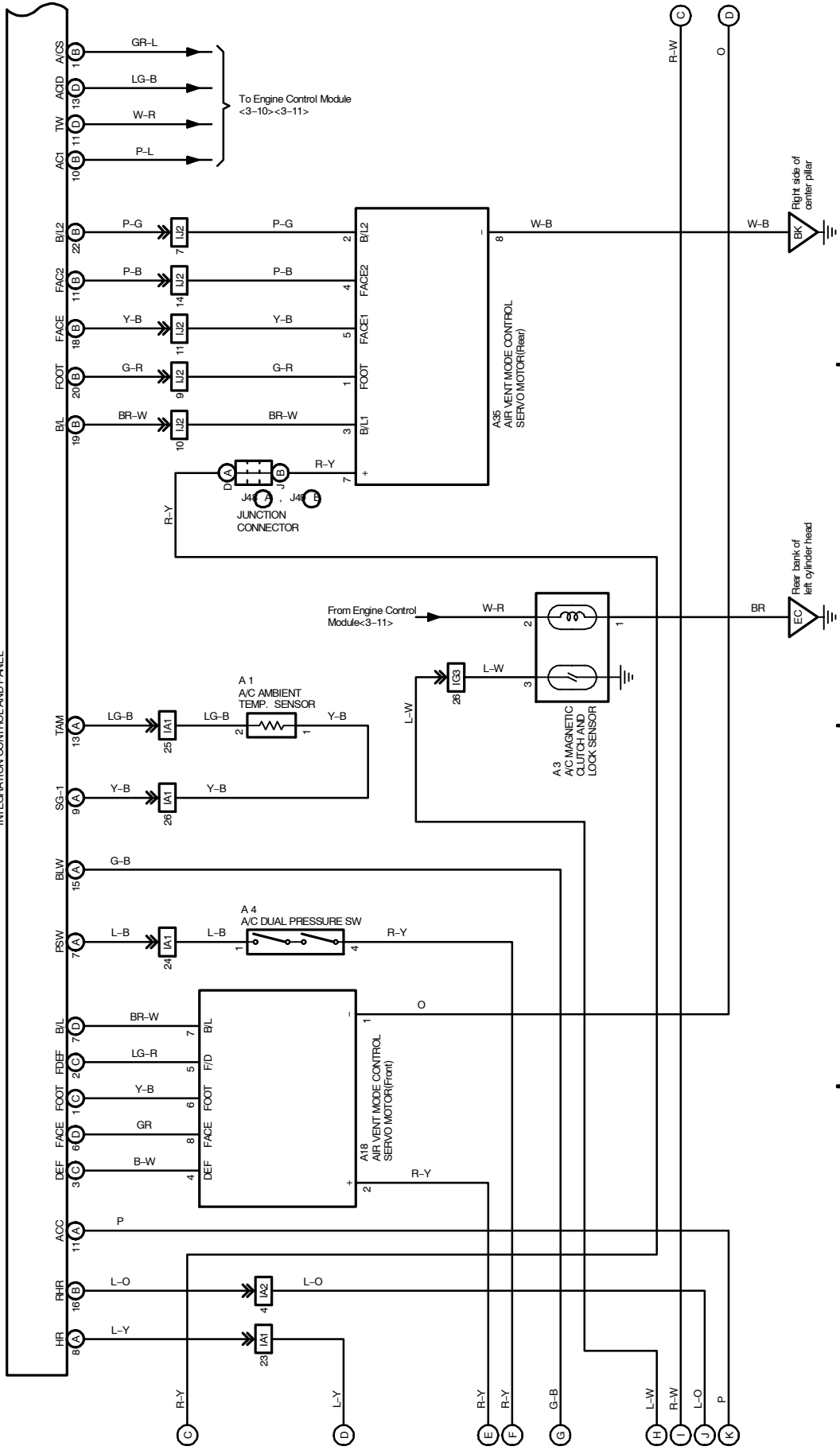
Power Source

Combination Meter





M OVERALL ELECTRICAL WIRING DIAGRAM

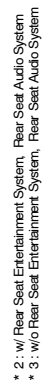


M OVERALL ELECTRICAL WIRING DIAGRAM

* 1 : Shielded



Air Conditioning (Dual A/C)



M OVERALL ELECTRICAL WIRING DIAGRAM

